

A project report on

**NUMERIC PATTERN STRUCTURING WITH CITATION  
GRAPHS**

Submitted in partial fulfilment of the requirement  
For the award of the degree

**MASTER OF COMPUTER APPLICATIONS**

Of



Visvesvaraya Technological University  
Belgaum, Karnataka

By

**MONIKA.GM  
1CR18MCA75**



**CMR INSTITUTE OF TECHNOLOGY  
132, IT Park Road, Kundalahalli, Bangalore-560037  
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**Internal Guide**

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Associate Professor  
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Bangalore.

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132, IT Park Road, Kundalahalli, Bangalore -560037

2019-2020

**CMR INSTITUTE OF TECHNOLOGY**  
**Department of Master of Computer Applications**  
**Bangalore - 560 037**



***CERTIFICATE***

*This is to certify that the project work entitled*

**NUMERIC PATTERN STRUCTURING WITH CITATION  
GRAPHS**

*Submitted in partial fulfillment for the requirements  
for the award of the degree of  
Master of Computer Applications of the  
Visvesvaraya technological University, Belgaum, Karnataka,  
bonafide work carried out by*

**MONIKA.GM  
1CR18MCA75**

*during the academic year 2019-2020.*

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**Signature of the Guide**  
Dr. Helen Josephine .V.L  
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MS. Gomathi. T  
HOD, MCA

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Name of the Examiners

- 1.
- 2.

Signature with date



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### CERTIFICATE

This is to certify that the project titled "Numeric pattern structuring with citation graphs" is submitted to elixir software's in fulfillment of the requirement for the final semester degree of MCA from CMRIT, Bangalore.

The project is a bona fide record at work carried out by Miss. Monika GM (1CR18MCA75) under the supervision and guidance of Mr. Uttkersh (Team Lead) elixir software's, Bangalore between the periods from 23/12/2019 - 15/5/2020.

The source code of the Project is not issued to the trainee as per the policy of the company. Screen print for the application is provided in limited no's.

Thanking You,

For elixir software's

**ELIXIR SOFTWARE**  
Miss. Shilpa D.,  
3/6, 4<sup>th</sup> Floor, 2nd Block  
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Bangalore  
(HR Manager)

## DECLARATION

I, Monika.GM, student of 6th MCA, CMR Institute of Technology, bearing USN 1CR18MC75 hereby declare that the project entitled “Numeric Pattern Structuring With Citation Graphs ” has been carried out by me under the supervision of External Guide Mr. Uttkersh, Project Leader and Internal Dr. Helen Josephine .V.L Associate Professor, Dept of Master Of Computer Applications and submitted in partial fulfillment of the requirements for the award of the Degree of Master of Computer Applications by the Vivesvaraya Technological University during the academic year 2019-2020. This report has not been submitted to any other Organization/University for any award of degree or certificate.

Place: Bangalore

MONIKA GM

Date:

(1CR18MCA75)

## **ACKNOWLEDGEMENT**

I would like thank to all those who are involved in this Endeavour for their kind cooperation For its successful completion. At the outset, I wish to express my sincere gratitude to all those people who have helped me to complete this project in an efficient manner.

I offer my special thanks to my external project guide Mr. Uttkersh Team Leader, Elixir Software's Bangalore, and to my Internal Project guide Dr. Helen Josephine .V.L, Associate Professor, Dept of Master Of Computer Applications, CMRIT, Bangalore without whose help and support throughout this Internship would not have been this success.

I am thankful to Dr. SANJAY JAIN, Principal, CMRIT, Bangalore for his kind support in all respect during my study. I would like to thank Ms. Shilpa D, HR Manager, Elixir Software's, Bangalore who gave opportunity to do this Internship at an extreme organization Most of all and more than ever, I would like to thanks my family members for their warmness, support, encouragement, kindness and patience. I am really thankful to all my friends who always advised and motivated me throughout the course.

**MONIKA.GM**

1CR18MCA75

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# CHAPTER 1

## INTRODUCTION

### 1.1 PROJECT DESCRIPTION

Multiple types of prediction and forecasting references are needed to acknowledge perfect decision making so we require multiple types of integrated modeling systems where different aspects can be discussed and can be referenced. The system is designed for the formulated working where all types of requirements related with the hypothesis techniques are included on a single system. The system is induced with multiple types of related platforms which can be referenced for getting the study information and as the references are provided the system will provide appropriate information on a single system so that proper acknowledgement of the information can be referenced and can be acknowledged.

The system is integrated with multiple working spaces as we required different types of conditional orientations or we can say that at the time of predictions and at the time of forecasting we require multiple factors to be discussed sofa discussing individual factors we can have individual space system to be designed. Multiple types of consideration that are required for the provisional inputs to inform the system about the requirements will be provided so any type of business identity that is required to be generated can be recognized and can be elaborated. The system is designed in such a way that all types of Differential requirements that are needed to be established can be undertaken from a single system.

The system provides multiple types of data provisions where all types of forecasting related rational understanding based data that is generated can be saved. Multiple types of orientation that are needed in terms of Technology in different types of security features or the accessibility features can be properly associated so we can say that multi references of the date acknowledgement can be generated. Multiple considerations of the analysis will be also stated within the system where all types of references that have acknowledged can be properly generalized so a proper instance page is provided where all types of statistical monitoring can be acknowledged.

When different types of statistics are required to be analyzed multiple types of setting provisions based on time frames and other provisions of the measures are also included so we can say that at the time of monitoring any type of modification that is required to be included on to the related statistics can be performed. The system is also associated with multiple types of graphical display provisions which will be included in such a way that all types of graphics required can be properly accomplished on a single reference where we can say that system is designed in such a way that with the help of different types of graphs and charts the related statistics can be converted in can be viewed.

For the understanding of different types of monitoring frames even a option of formulation is provided where we have included different types of formula bases to the users so that any type of formula required to be implemented can be selectively utilized. As we know that for or any type of production and forecasting we require different types of calculations and references the system provides all types of calculator formulas so that it is user friendly and any type of organization using the system will find it easier when it comes to include different types of formula. When the references of the formulas are provided, even the comparative formula system is provided where multiple formulas can be implemented at the same time if any type of identities required to be analyzed from a single reference.

Multiple types of considerations in terms of the graph modifications based on different types of customer's preferences for example the colorsetc will be provided. Multiple types of references in terms of transfer will be also provided when any type of required information cancel is needed it can be properly associated. All types of hypothesis and systematic modeling techniques are revealed so that Global inclusion of different types of related information and the working things can be organized from single system. Multiple types of teams can be added to the system so that different types of related variations of working can be generated and this will help organizations to acknowledge multiple provisional working.



Figure : Design cycle is shown in the above diagram

All types of related updating that are associated with the workability will be provided to the users in real time so we can say that referential information study will be optimized because the system automatically updates the information then only it will be displayed. Any type of related comparative working based on Window divisions are required it can be also organized as multiple types of Windows can be added on the same interface this will help us to identify the monitoring references in more optimized way.

## 1.2 COMPANY PROFILE



Elixir is Technology driven association where all the most recent developing Technologies is considered for different customization support however observation utilities for the association unconcerned forthcoming. Different skill group and experts will be associated with in house plan of IT arrangements that are required for different contemplations of examination and activities. The organization works in different kinds of area and Designs away at circumstances in a configuration that it ought to be fast and moderate with the whole related goal incorporated for the achievement of the customer thought.

We outfit the point of convergence of Excellence with all the inclination data and game plans with association with various Optimization consultant courses of action required for completing difficulties uninterested perspective on working. Numerous hierarchical comprehensions on a worldwide scale have been accomplished; the association is likewise related with conference so different figuring difficulties can be connected with the customer's recognition to give ideal development and comprehension.



Some of the services provided by the application are-

Software Development

› Customized Software Development

› Product Development

› Web Application Development

› Sales Support Application

IT Services

› Internet Marketing

› E-mail Marketing

› SMS Marketing

› Server Hosting

Web Design & Development

› Web 2.0 Designing & SEO

› Multimedia Solution

› Custom Shopping Cart Development

› E-Commerce Website Designing

## CHAPTER 2

### LITERATURE SURVEY

#### 2.1 EXISTING AND PROPOSED SYSTEM

Existing system when referenced we found that it is full of problems because when any type of related predictions and forecasting is required to be acknowledged multiple types of references are required to be included and even various types of modern customization is associated so we found that all these workability requirements are not fulfilled in the existing scenario. Multiple types of work on for the forecasting which is expensive and even the usability of different types of resources were acknowledged.

Some of the important problems that has been acknowledged in the existing system is listed at following -

- ✦ Global references based on inclusive identification for the predictions and forecasting preferences is not supported from a single system so we can say that different types of related identity based prediction cannot perform from a single system
- ✦ The related hypothesis references that are required to be accomplished is also quite difficult because multiple types of variations for the hypothesis techniques cannot be included from a single system so for different references of hypothesis different types of tools are utilized
- ✦ In the existing scenario we also found that references required for the formulation are quite difficult because in terms of forecasting and predictions various types of formula base is required to be utilized and these formula bases are quite difficult because it requires a detailed knowledge and understanding
- ✦ In the existing scenario we also found that the way the customization has to be included in terms of study is also not provided so multiple drawbacks related to the working tools has been acknowledged
- ✦ In the existing system even the references of monitoring is quite difficult because multiple compatibility issues in terms of convergence and in terms of optic generation has been seen
- ✦ In the existing system we have also acknowledged that real time perception study or any type of comparative relational study is not supported or if it is required it requires lots of effort making it quite complex for the organization
- ✦ The data references management is also quite difficult in terms of security so we have seen that more efforts are required to acknowledge the related data that is generated at the time of predictions

- ✦ In the existing system all references required to be entertained in terms of collaborated working is also quite difficult to be organized because in terms of related forecasting multiple users are required

### **Proposed system**

The proposed system is referenced with multiple types of techniques which will be based on hypothesis understanding and other professional working to associate different types of forecasting references so we can say that any type of critical Global identity based forecasting is required to be done it can be now at knowledge from a single system. Multiple considerations of the propose system is design while taking all considerations of the existing scenario properly.

Multiple considerations for the important points of the proposed system is listed as following -

- ✦ In the proposed system single system workability is provided so any type of related identification of the Global references are required which can be generated from the system by providing the inputs and accordingly the information will be retrieved and provided
- ✦ Various types of hypothesis references which are needed is also supported to be implemented from a single system so we can say that any type of accomplishment of the hypothesis references can be generated with the help of the system
- ✦ All types of formulation that is needed can also be acknowledged with the help of the proposed system where multiple types of inbuilt considerations of the formulas in areas are provided which are required to be individually selected and utilized
- ✦ All types of customization that are needed in the process of forecasting study is also provided with multiple types of options and each options can be intensely used at the same time so we can say that any reference of the customization that is needed while study can be properly organized
- ✦ All types of monitoring references are also provided in the proposed system so multiple types of consideration can be selected by the users to acknowledge that the standing which includes multiple types of statistical charts and graphs
- ✦ Real time perception and comparative study is also provided in the proposed system so all references of the workability is properly provided and drafted, the users will be also provided with the reference of data updating system so any modifications required can be properly included
- ✦ Multiple types of data management references are included in the propose system so the data security can be optimized
- ✦ Multiple users can also be added for performing different types of forecasting related activity and this will help as multiple pages instances can be designed for the work references

## 2.2 FEASIBILITY STUDY

Feasibility references are quite important that has to be properly generalized as we want that understanding should be properly reflect or we can say that whenever we are starting the system we have to check that all types of perceptions required are properly drafted in terms of the technological requirements, operational requirements and economic requirements

Technical feasibility

Operational feasibility

Economic feasibility



Figure

Feasibility understanding is shown

### **Technical feasibility**

Technical feasibility is reference to find the solution of the problems that we have discussed in the existing system based on different types of forecasting and predictions so proper outlining of the workability base for the propose system features will be decided first

Also technological requirements that are associated will be acknowledged so that all types of technological variations can be properly generalized

All the users will be provided with proper working liabilities and it will be tracked so that proper references are the work based on development and implementation can achieve

All types of technological understanding based on different types of information processes that will be undertaken for the forecasting will be acknowledged so that all stages can be included

### **Operational feasibility**

The guidelines for the usability will be provided to the user so that they can understand that how the system has to be utilized

Multiple configurations that are required to be acknowledged in terms of documentation will be also design and will be provided to the users

We are also included in house training that has to be associated because we want that user should have the knowledge with free hand working

All types of escalation references will be also acknowledged as in the future more affairs of escalations can arise

### **Economic feasibility**

Economic considerations are also very much important because we have to check that how much investment is required and how different references will be acknowledged

Multiple considerations of the workability will be also generalized because we have to check that for different types of stages after software entering how much money is related

All types of acknowledgements based on return on investment calculations will be also perform and all the details will be done by the financial department and detailed report should be submitted to the board of directors



## 2.3 TOOLS AND TECHNOLOGIES USED



### PHP

All substance of the PHP was structured and made by RasmusLerdorf in 1994. PHP mediator will be utilized to process PHP codes and even the PHP codes might be executed with the assistance of order line interface. PHP is contracted as hypertext preprocessor, and it is an open source scripting language which can be used for different kinds of stage similarity structures and even as far as various sorts of server similarity is given.

Web-Server – PHP will work with in every practical sense all Web Server programming, including Microsoft's Internet Information Server (IIS)' anyway then routinely used is wholeheartedly available Apache Server. Download Apache to no end here – <https://httpd.apache.org/download.cgi>

### Debugger

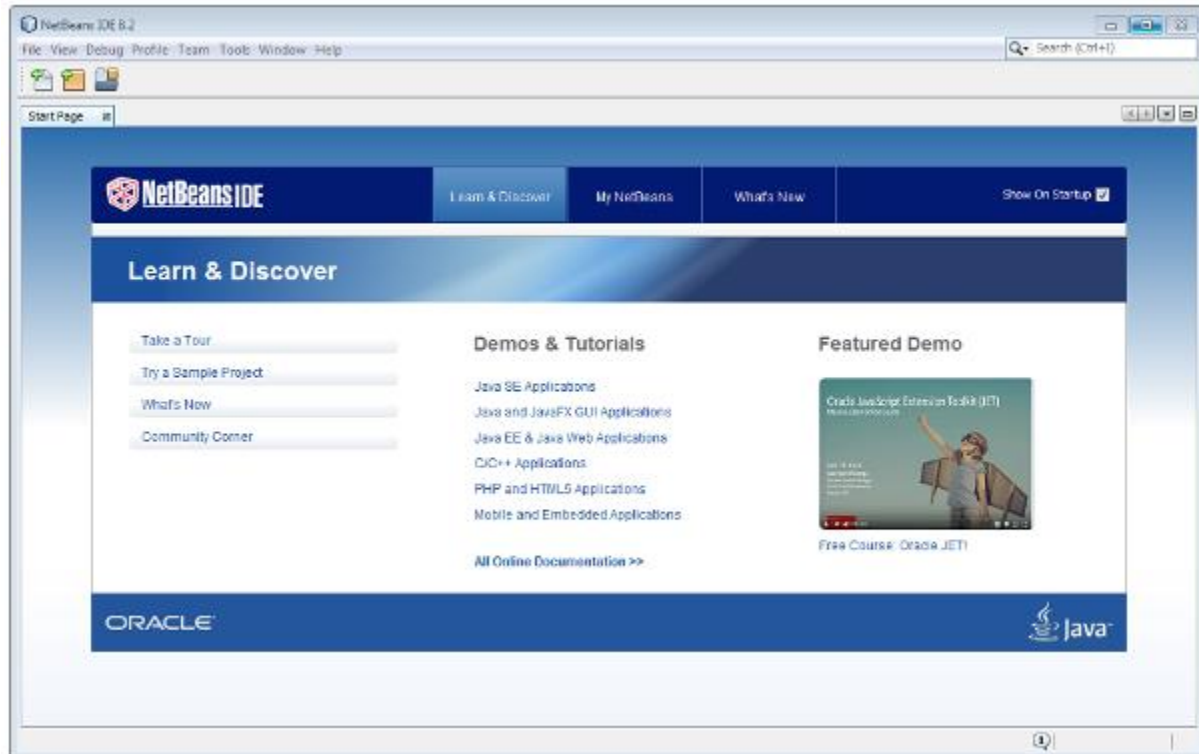
Use an overall PHP consolidate path for all endeavors or change it per adventure. The NetBeans IDE for PHP also offers bearing line investigating: The PHP program yield appears in a request line appears in the IDE itself and you can research the made HTML without changing to a program.

### MySQL Database

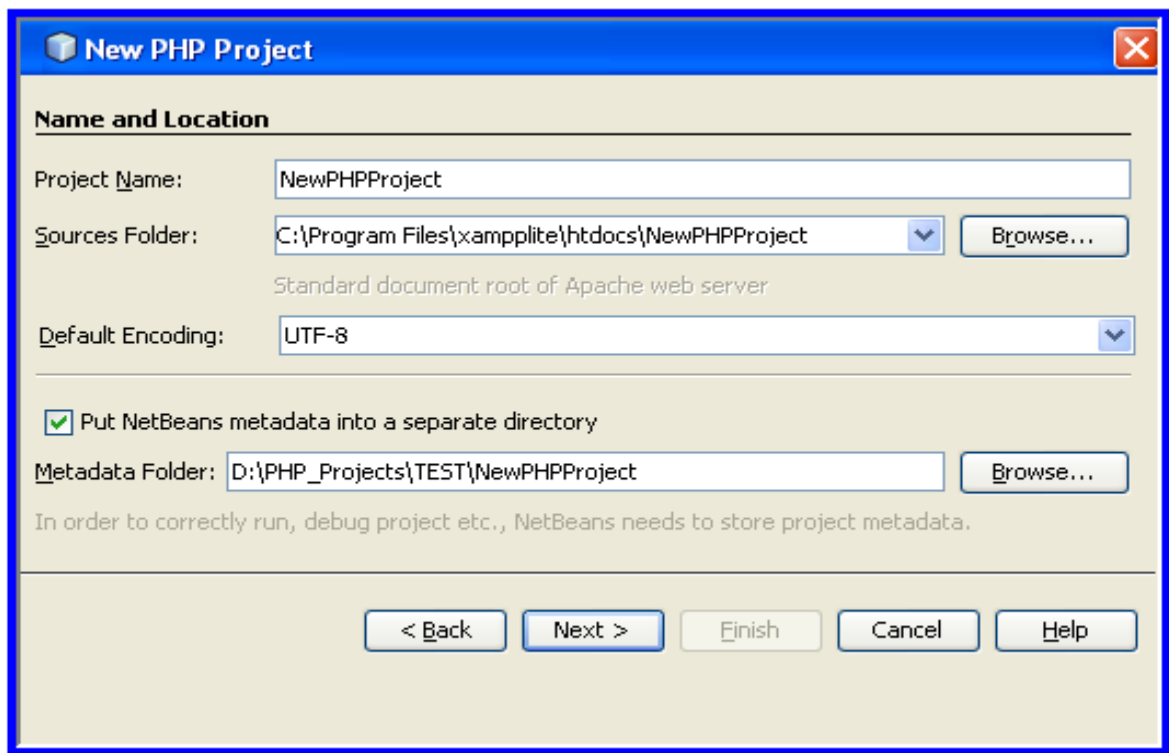
MySQL is a brisk, easy to-use RDBMS being used for close to nothing and colossal associations. MySQL is made, promoted and reinforced by MySQL AB, which is a Swedish association. MySQL is twisting up so notable considering various substantial legitimizations –

MySQL is released under an open-source license. So you don't have anything to pay to use it-

MySQL tackles many working structures and with various tongues including PHP, PERL, C, C++, JAVA, etc



IDE



NetBeans metadata in our NetBeansProjects directory

## 2.4 HARDWARE AND SOFTWARE REQUIREMENTS

### Software requirements:

- WAMP --- Web Application Server
- PHP --- Server Side Scripting Language
- MySQL --- Database
- XHTML --- Extensible Hypertext Markup Language

### Hardware requirements

- Computer processor : 8<sup>th</sup> generation Intel core i5
- Clock speed : 1.7 GHz
- Hard Disk Space : 500 GB
- RAM : 4 GB

## CHAPTER 3

### SOFTWARE REQUIREMENTS SPECIFICATION

#### 3.1 USERS

##### Administrator

A reference administrator will be added so that different types of work channeling can be operationally performed so multiple types of users and other types of working references will be included. All detail of the working conditions will be added by the administrator

##### Team members

Team members will be associated with working rights and they will be performing different types of forecasting and related activities that has to the associated so they will be having different logins and based on the rights they will be acknowledging different types of references of activity

##### **Scope and objective**

Response of the system is that multiple types of organizations can utilize the system for conducting the forecasting activities and the referential forecasting references that are required to be acknowledged is provided from a single system so any provision of monitoring or any provision of understanding that is required can be directly acknowledge

The main objective of the system is to make the system easier for acknowledging the forecasting activities so the system is being included with all types of steps required in terms of hypothesis or in terms of different types of related hypothesis activity

##### **Assumptions and dependencies**

The assumption is that user should be having a proper knowledge about all the types of formulas and how the statistics hypothesis is required to be conducted or we can say that they should have a proper knowledge first to include different types of features of the system

The important dependency of the system is that as the research work will be started all types of working configuration are required to be acknowledged from a single system only

##### **Problem statement**

The problem statement reference is that all the users are required to be added on a single platform for having different types of conditional orientations of hypothesis

All types of references of formulas are required to be included which has to be properly implemented at the time of collection Multiple references of the working instances generated so multiple types of consolidated consideration are required to be included on a single system

### 3.2 FUNCTIONAL REQUIREMENTS

Functional requirements will help us to understand the features and when the features are related with the forecasting and other prediction activities it is needed that each and every task that will be performed has to be properly defined

Global setup provisions

Use Case Name	Global setup provisions
Trigger	Settings
Precondition	Admin access required
Process	<p>Global setup provisions are acknowledged where the administrative will be adding different types of required platform together the referential information based on different forecasting activities.</p> <p>Multiple details that a provision to be provided to the users which has to be acknowledged with the help of Input and working conditions and accordingly it will be saved.</p> <p>Setups include different types of market reference integration which are needed for analytical information review retrieval. All the related references are provided in a set of format which has to be utilized by the users according to their own consideration for the pattern structuring.</p>
Post-condition	Setups provided

Working pages

Use Case Name	working pages
Trigger	Selective
Precondition	Authentication required
Process	<p>The working pages associated with different types of customization options where all types of Window framing and other considerations of time based provisions will be acknowledged so the system provides a place where all types of monitoring references can be obtained with customization provisions implemented.</p> <p>According to the requirements the users has to select the option and in accordance to which the selections will be implemented.</p>
Post-condition	Details options provided

#### Formula implementation

Use Case Name	formula implementation
Trigger	Selective
Precondition	Authentication
Process	<p>Various types of formula implementation references are also included within the system where the users will be having the choice of selecting different types of formulas.</p> <p>The formula the provided in inbuilt provisions as selection for designed all types of considerable usability will be provided and accordingly the reference statistics with comparisons and with different types of charts will be displayed to the mountain window.</p>
Post-condition	Formulas implemented

## Detailed visualization

Use Case Name	detailed visualization
Trigger	Selective
Precondition	Authentication
Process	<p>Multiple types of detailed visualization that are required for proper studying the variations are also provided with the help of different types of chart so when the analytical monitoring is required the uses will be presented with different types of analytical chart which will be selected and according to the data that is being selected for the study the convergence will take place by the system.</p> <p>Multiple types of customization variations can also be used at the time of information review</p>
Post-condition	Details added

## Associated customizations

Use Case Name	associated customizations
Trigger	Selective
Precondition	Authentication required
Process	<p>Multiple types of references based on sharing and associated customizations which are required to be referenced in terms of the study will be also provided very when the system provides some options of automation with the system can provide the alerts for different heads of activity references.</p> <p>All the related customization provisions are required to be set up by providing the related</p>

	conditions in inputs
Post-condition	Customization reference provided

### 3.3 NON-FUNCTIONAL REQUIREMENTS

Multiple considerations of the users will be study and it will be provided in the system so that at the real time workability the users can have all the preferences properly provided based on the scalability, based on usability accuracy, based on the security preferences etc.

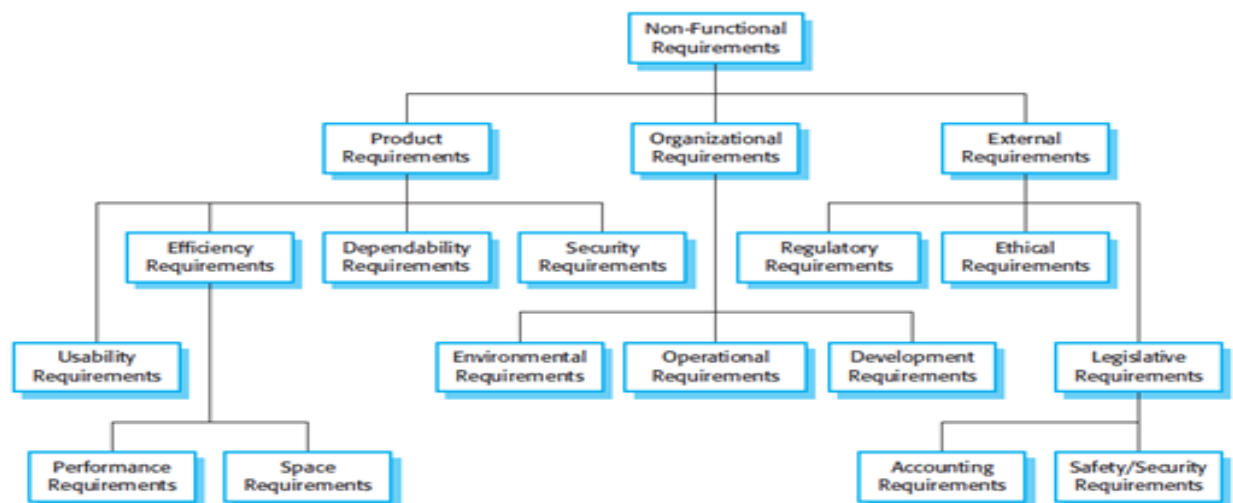


Figure- non functional

The above figure shows multiple sections of non-functional

#### Security

When the conditional information are provided from multiple sources all types of related references of security will be check and even when the preferences of workability is provided the related references of understanding and proper regulations should be associated so all types of security aspects are undertaken which has to be customized induced

#### Scalability

Large references of information references that will be utilized in the prediction will be supported by the system or we can say that any depth of the data can be utilized within the



system and the system will provide the scalability for the working so multiple users and multiple types of references of data can be acknowledged

### **Legal**

All legal usage of the information is required to be properly drafted so that the users will be having understanding that how to utilize the data that is provided to the users as the data will be referenced with other third party details

### **Accuracy**

The system provides all types of accuracy in terms of information drafting or in terms of different types of formula implementations show with the help of the system each and every consideration that have required to be acknowledge in terms of statistics will be provided in a standard accurate format

### **Documentation**

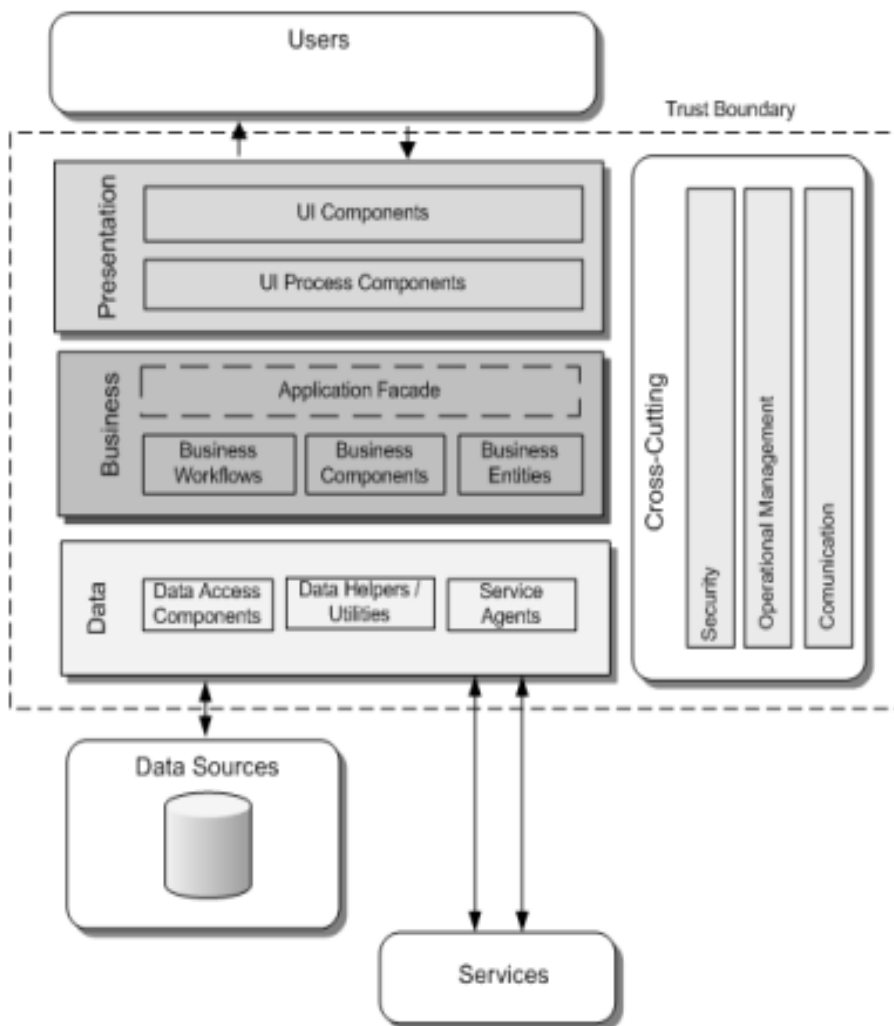
All types of documentation that are related with the system will be also provided to all types of references that are needed to be accomplished can be properly recognized by the users. All types of usage formulations we provide it and each and every function details with the help of some examples will be collaborated

## CHAPTER 4

# SYSTEM DESIGN

### 4.1 Architecture diagram

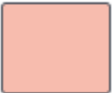


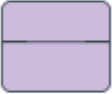




A conceptual model is been designed so that the structure behavior and view of the system can be properly recognized this is what we call the architecture diagram

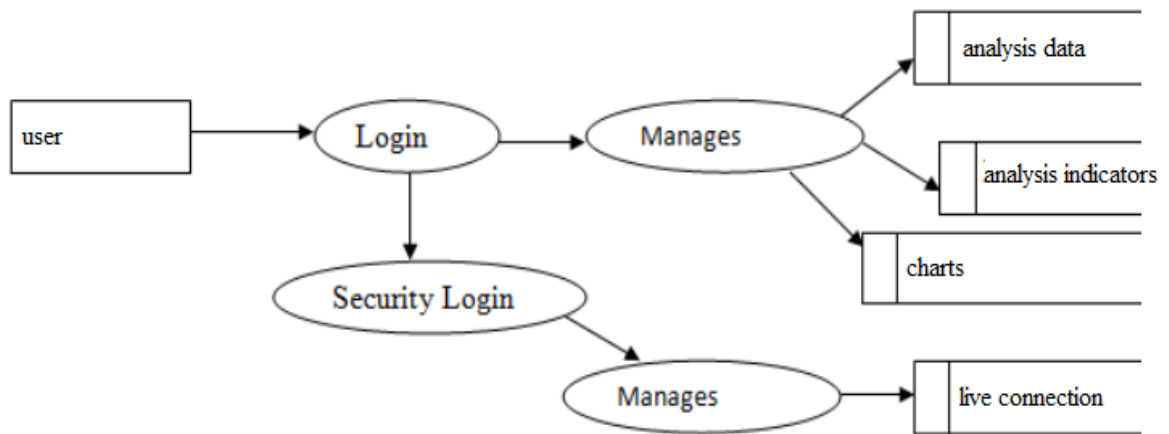


Architecture diagram

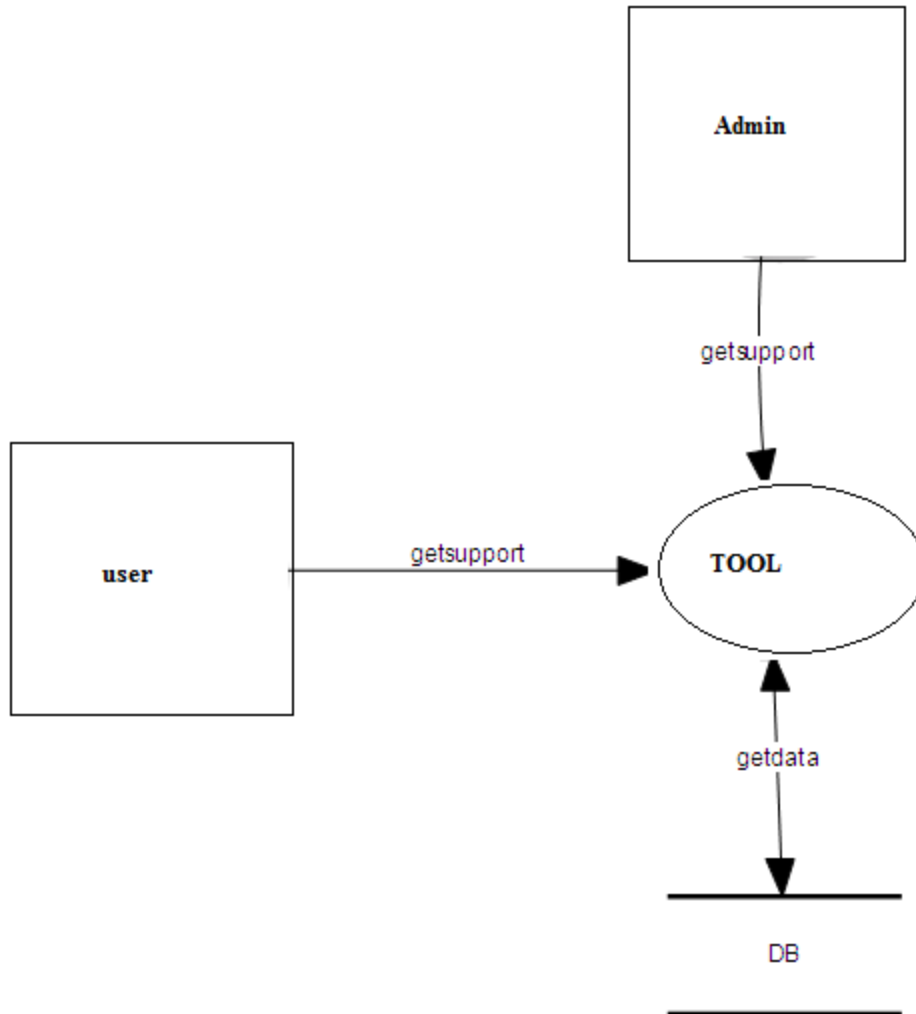
## 4.2 Data flow diagrams

Data flow diagram is depicted with the help of different types of symbols to represent the processes and flows based on functions database input output and flows

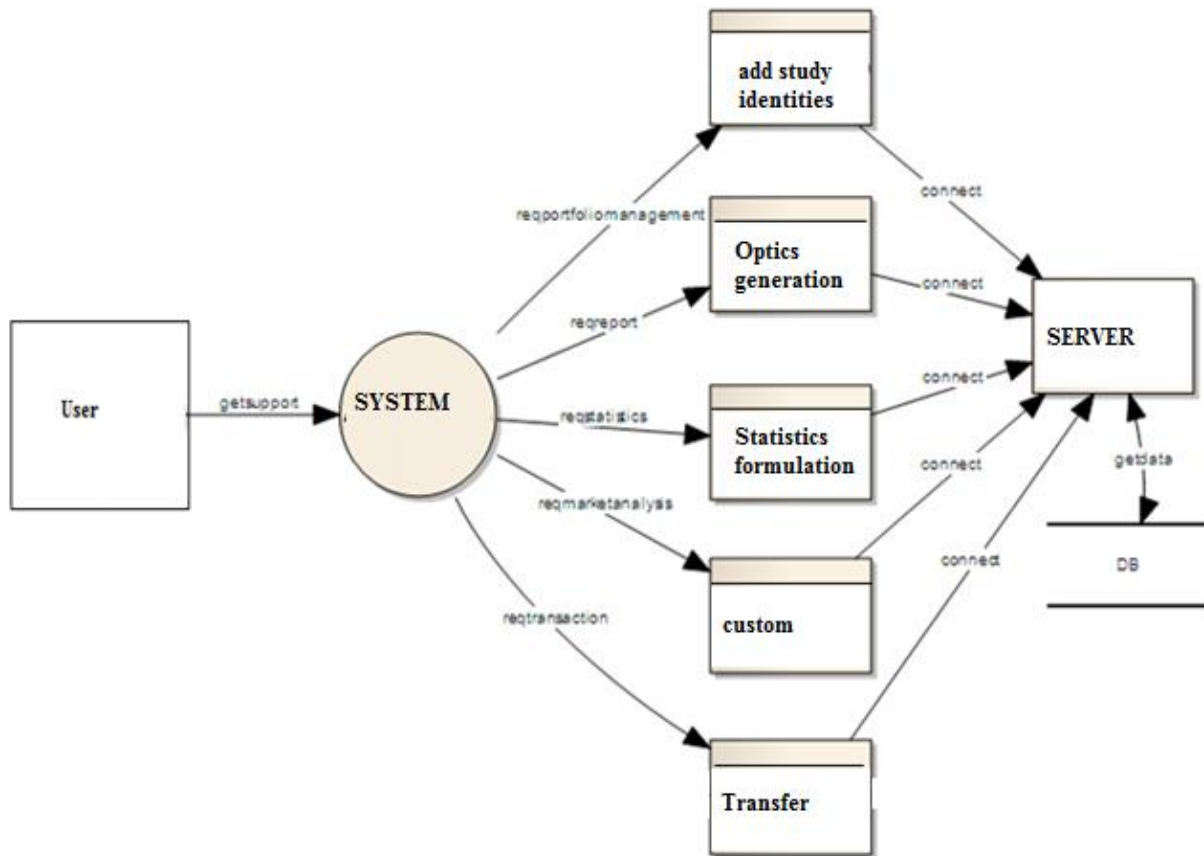
	Yourdon and Coad	Gane and Sarson
External Entity		
Process		
Data Store		
Data Flow		



DFD diagram



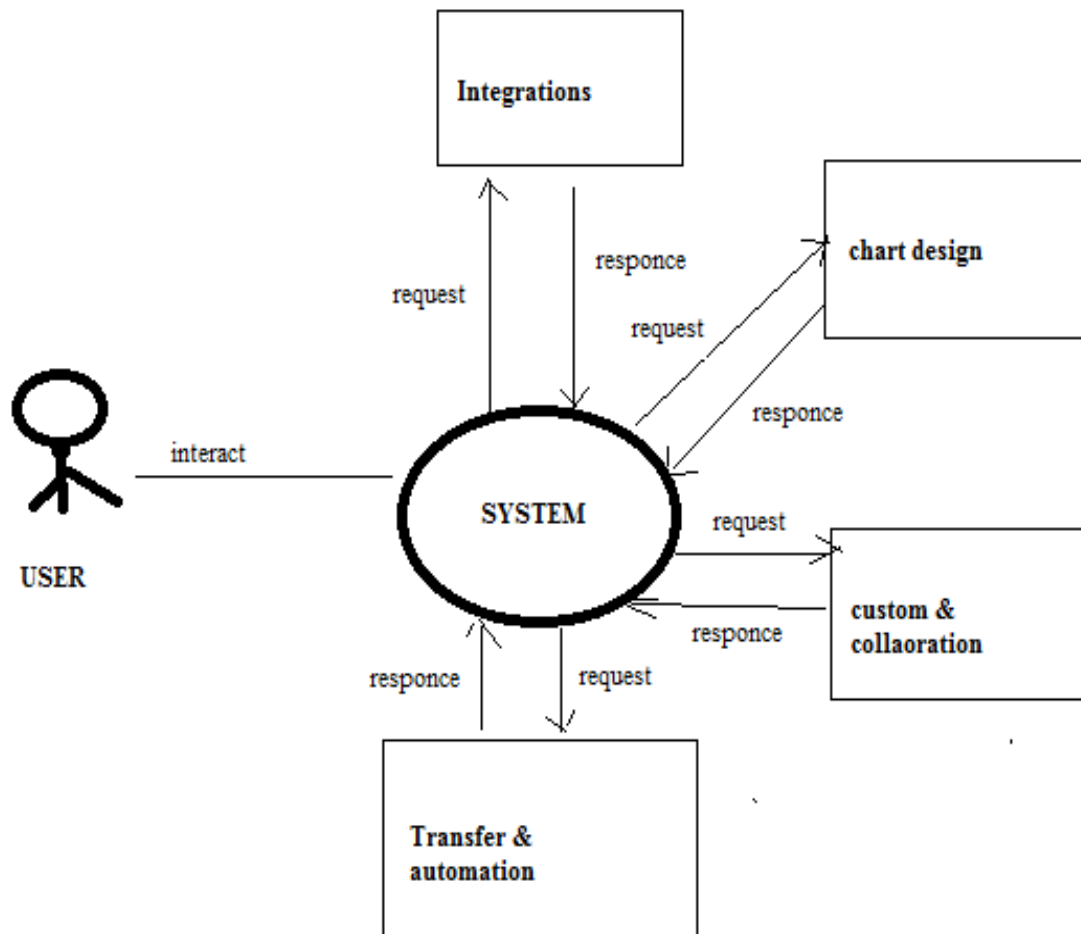
O-level DFD



DFD Diagram

### 4.3 CONTEXT DIAGRAM

Context diagram provides multiple sequence of synchronization of processes where all types of scope and boundaries of the system at a glance is shown

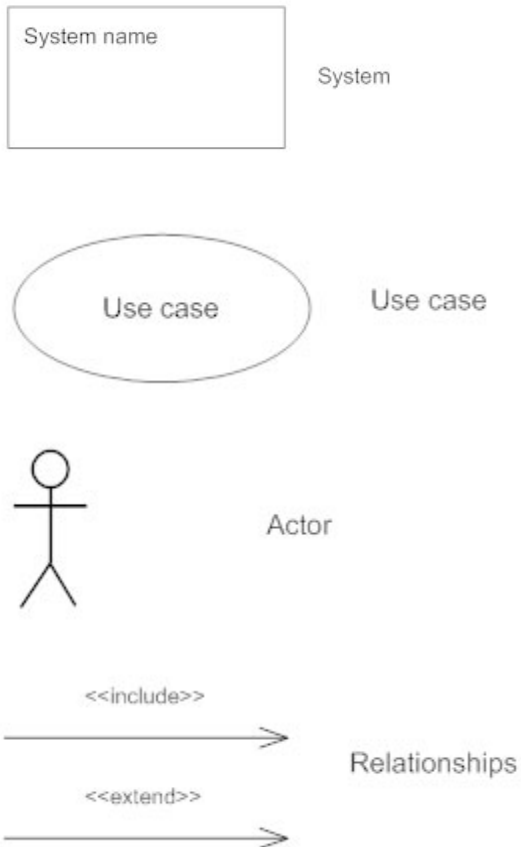


## CHAPTER 5

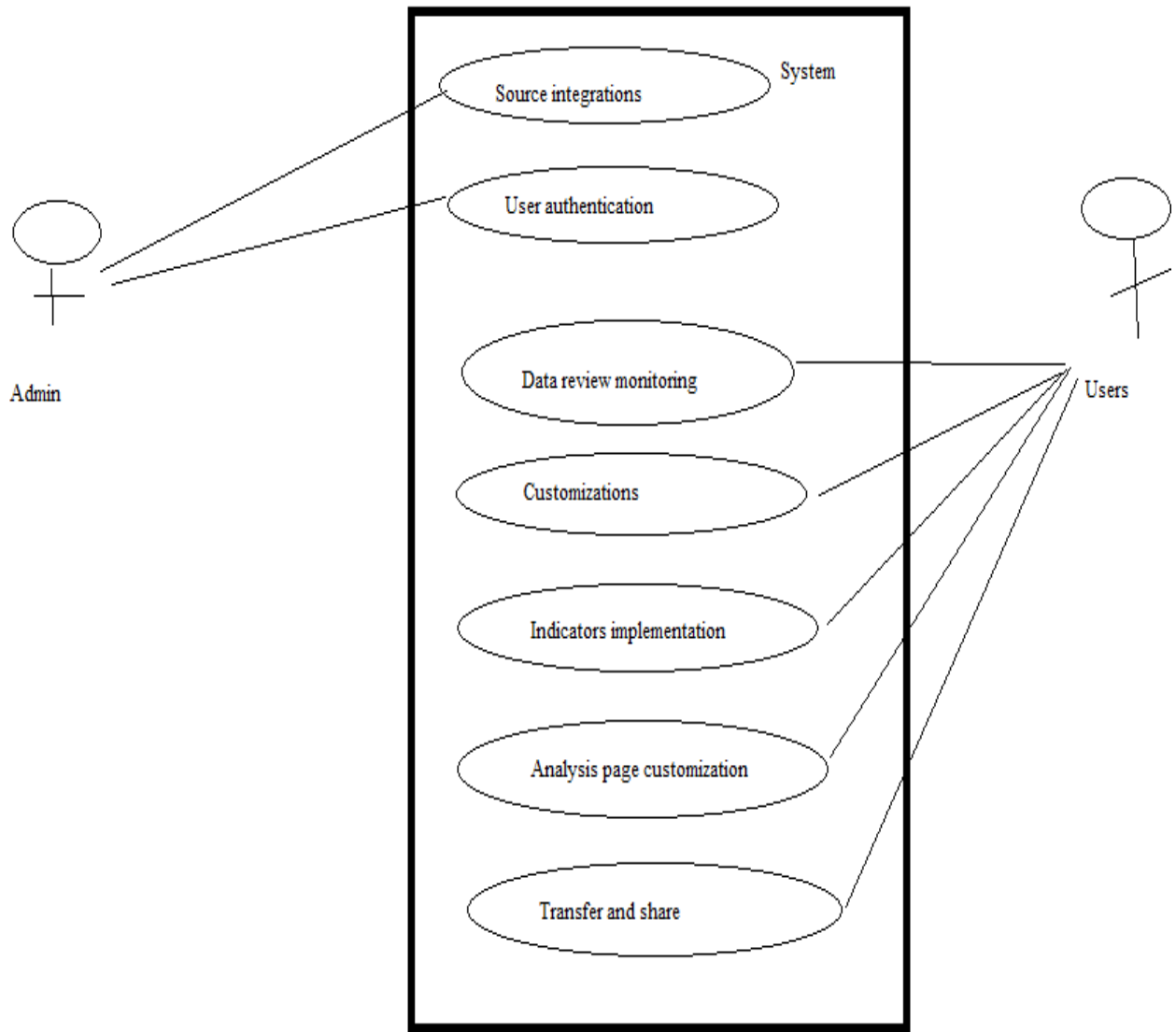
### DETAILED DESIGN

#### 5.1 USE CASE DIAGRAM

Use case diagram shows all types of interactions and relationships between the user and different types of use cases where the user is involved for the referential usage.



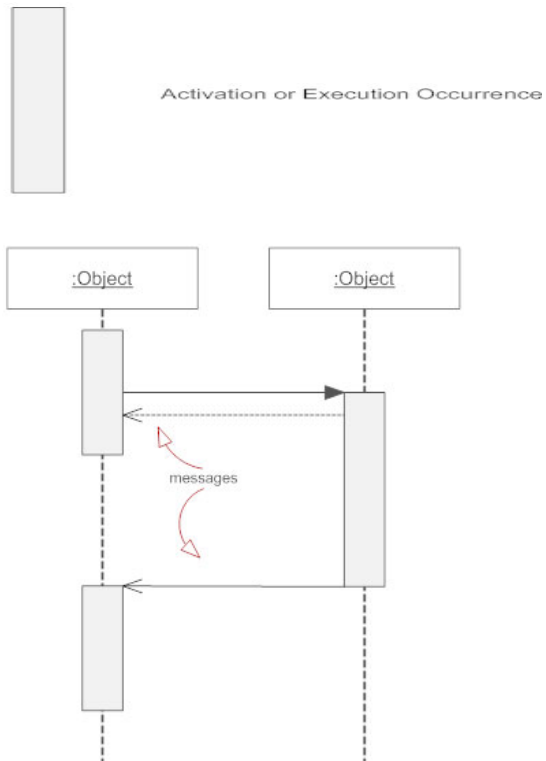


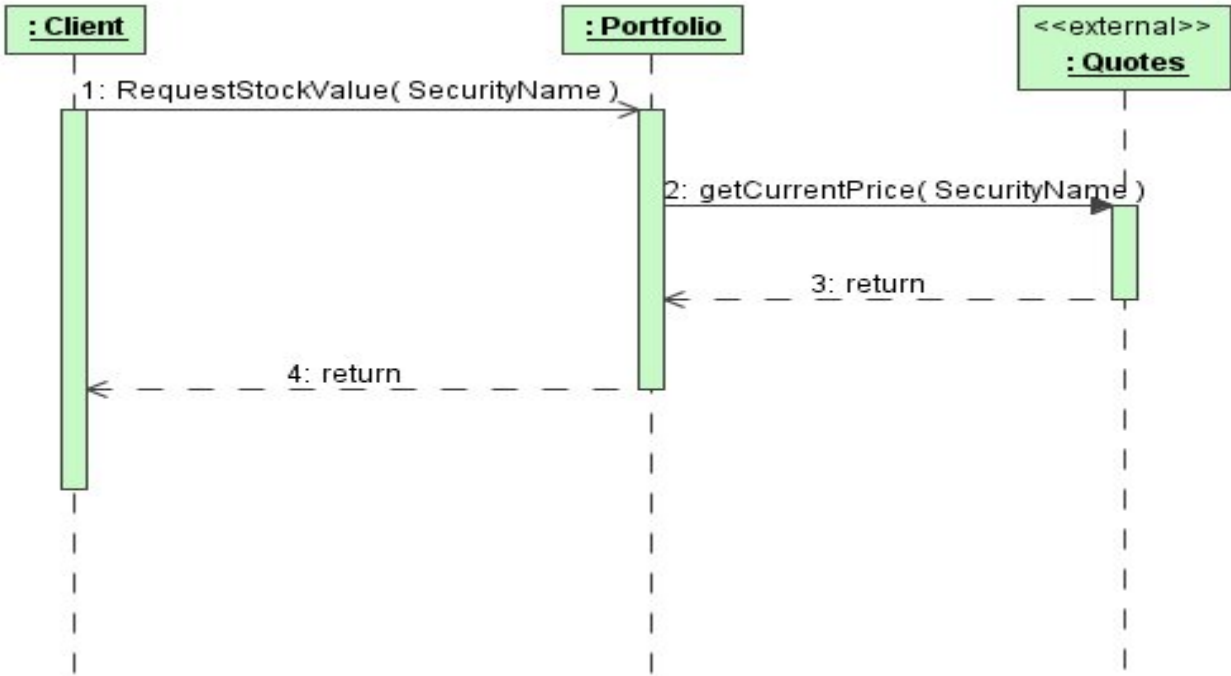


Use case diagram

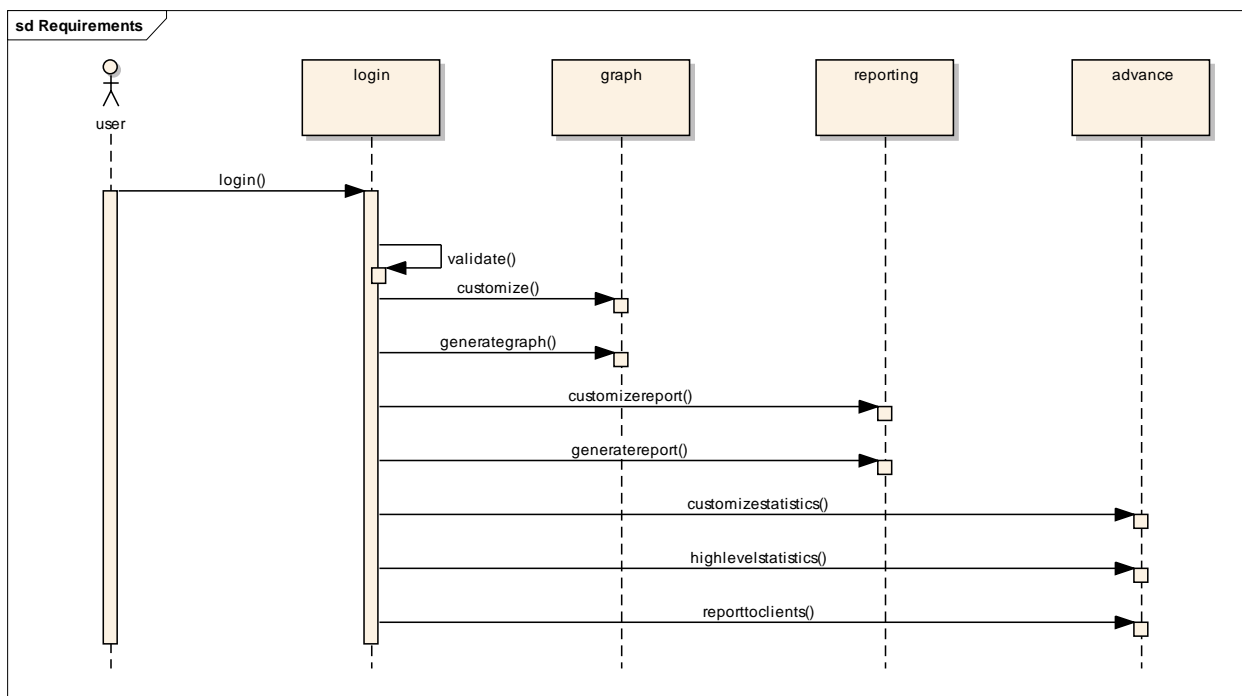
## 5.2 SEQUENCE DIAGRAMS

Sequence diagram shows the related external actors and the related methods invoked by these actors





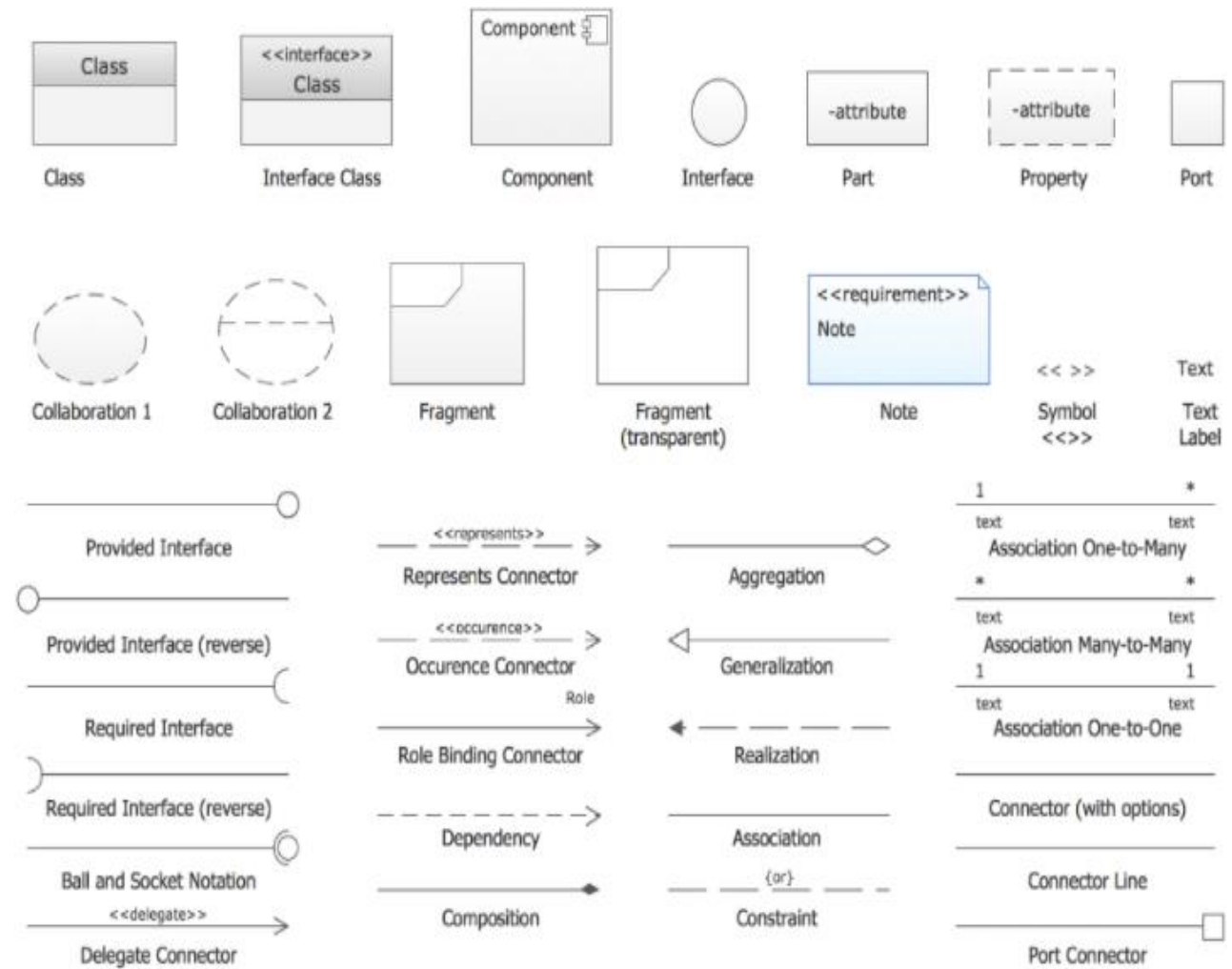
## Sequence diagram

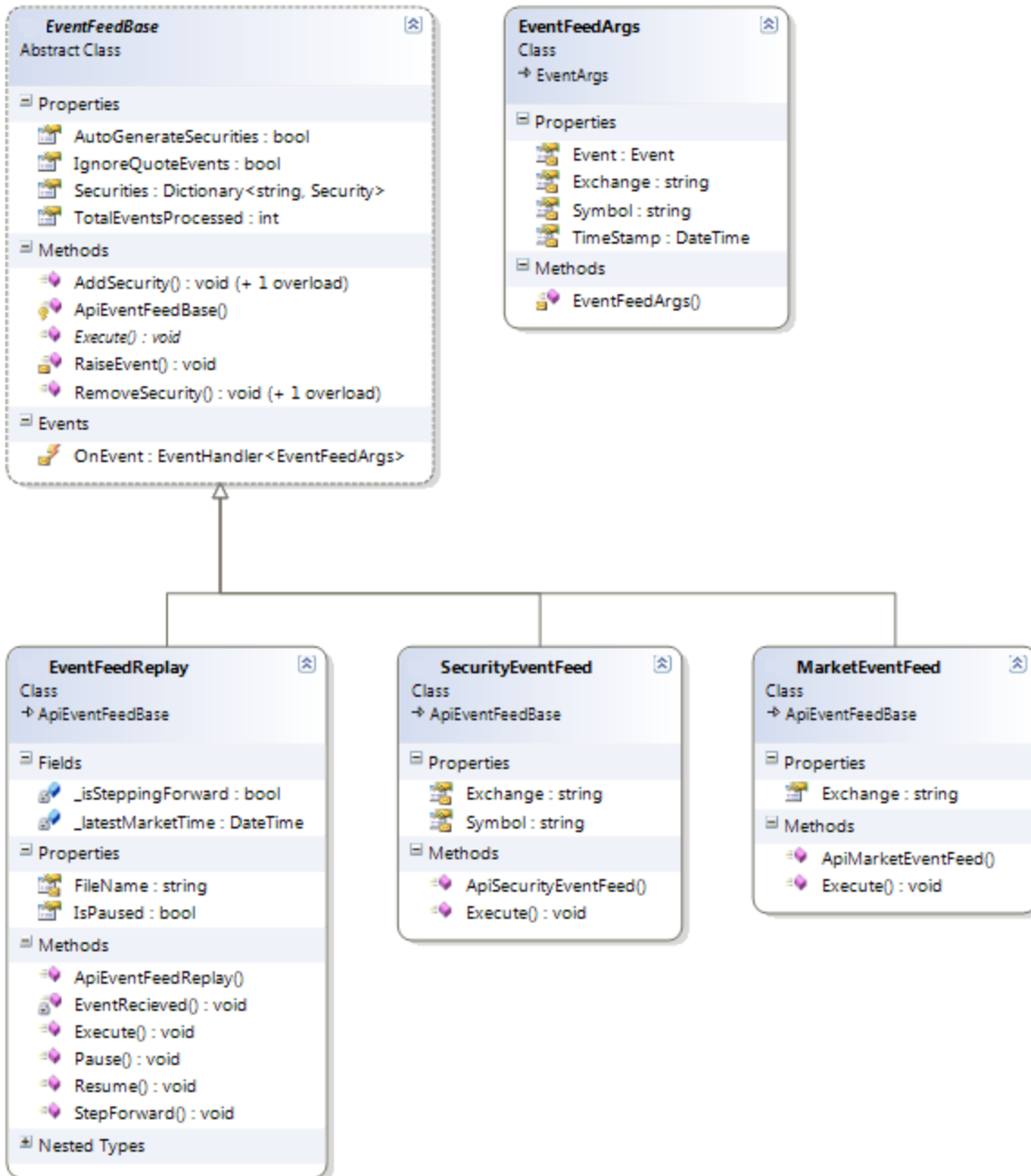


Sequence diagram for graph and reporting

### 5.3 CLASS DIAGRAMS

Class diagram is divided into three main compartments where all types of class name attribute and operations of execution will be included

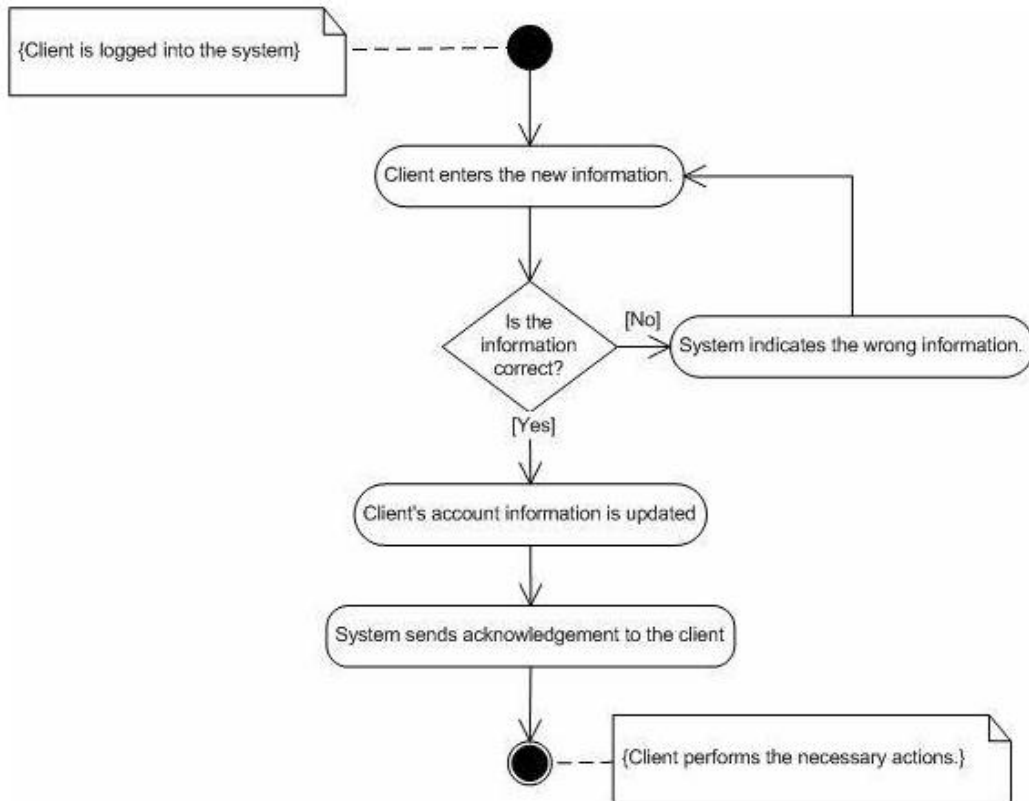




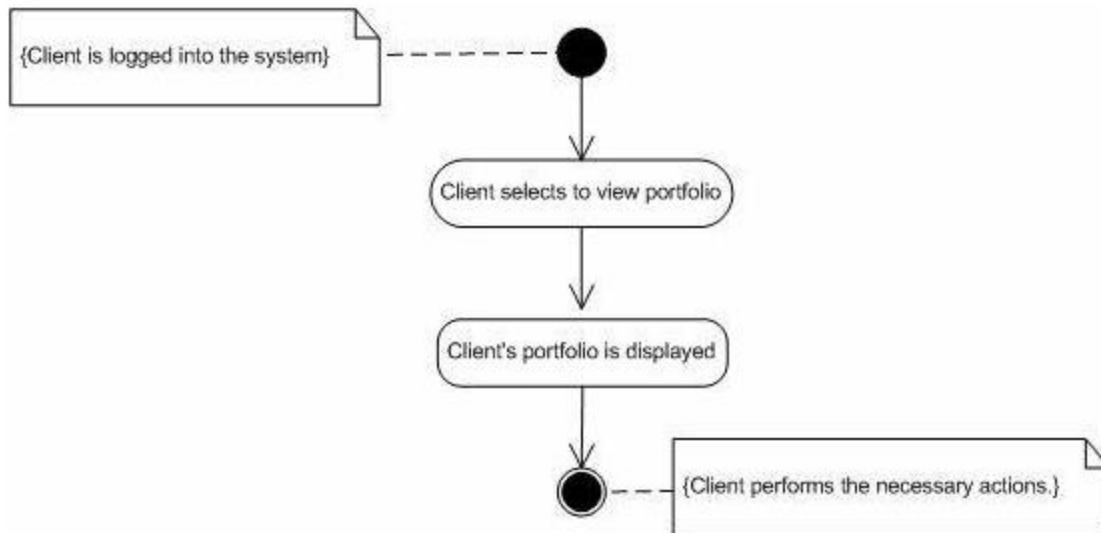
Class diagram

## 5.4 ACTIVITY DIAGRAMS

Activity diagram captures the dynamic behavior and shows the message flow from one object to the another



Activity diagram



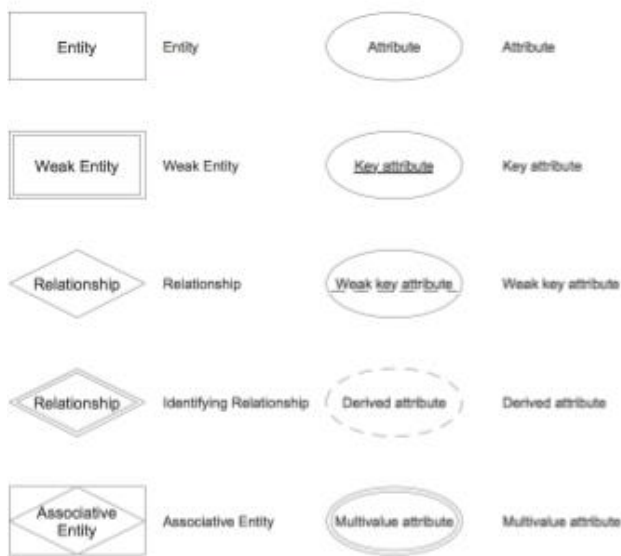
Check equity details activity diagram

## 5.5 DATABASE DESIGN

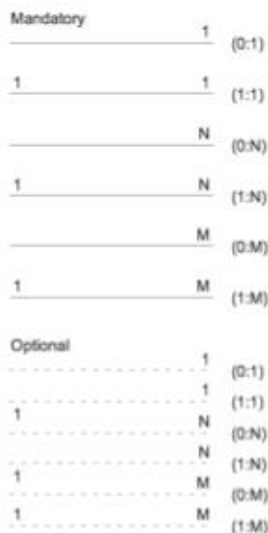
### Entity relationship model

Entity model helps us to understand the related entities and all types of related modeling based on the relationships and attributes will be performed

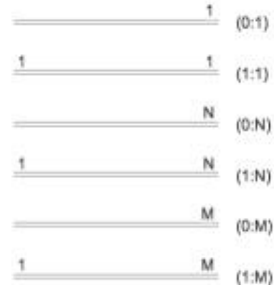
Chen's notation



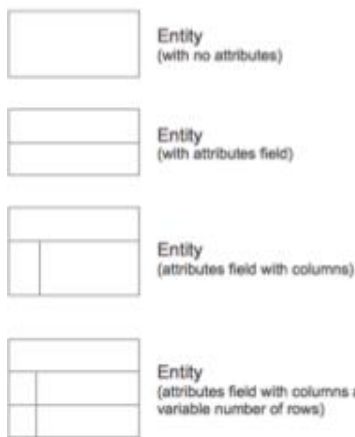
Participations  
Cardinality can be shown or hidden



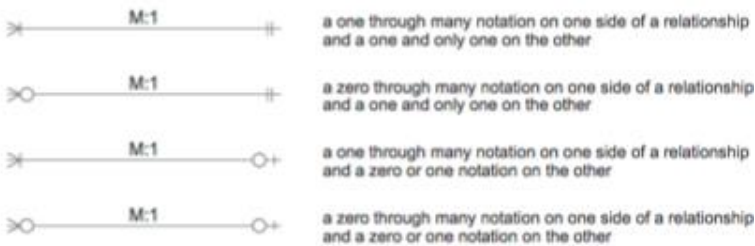
Recursive Relationship  
Cardinality can be shown or hidden



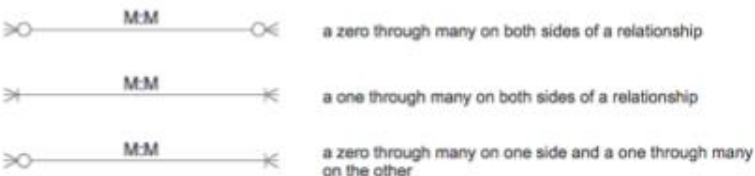
Crow's Foot notation



Many - to - One



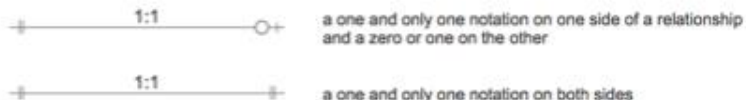
Many-to-Many



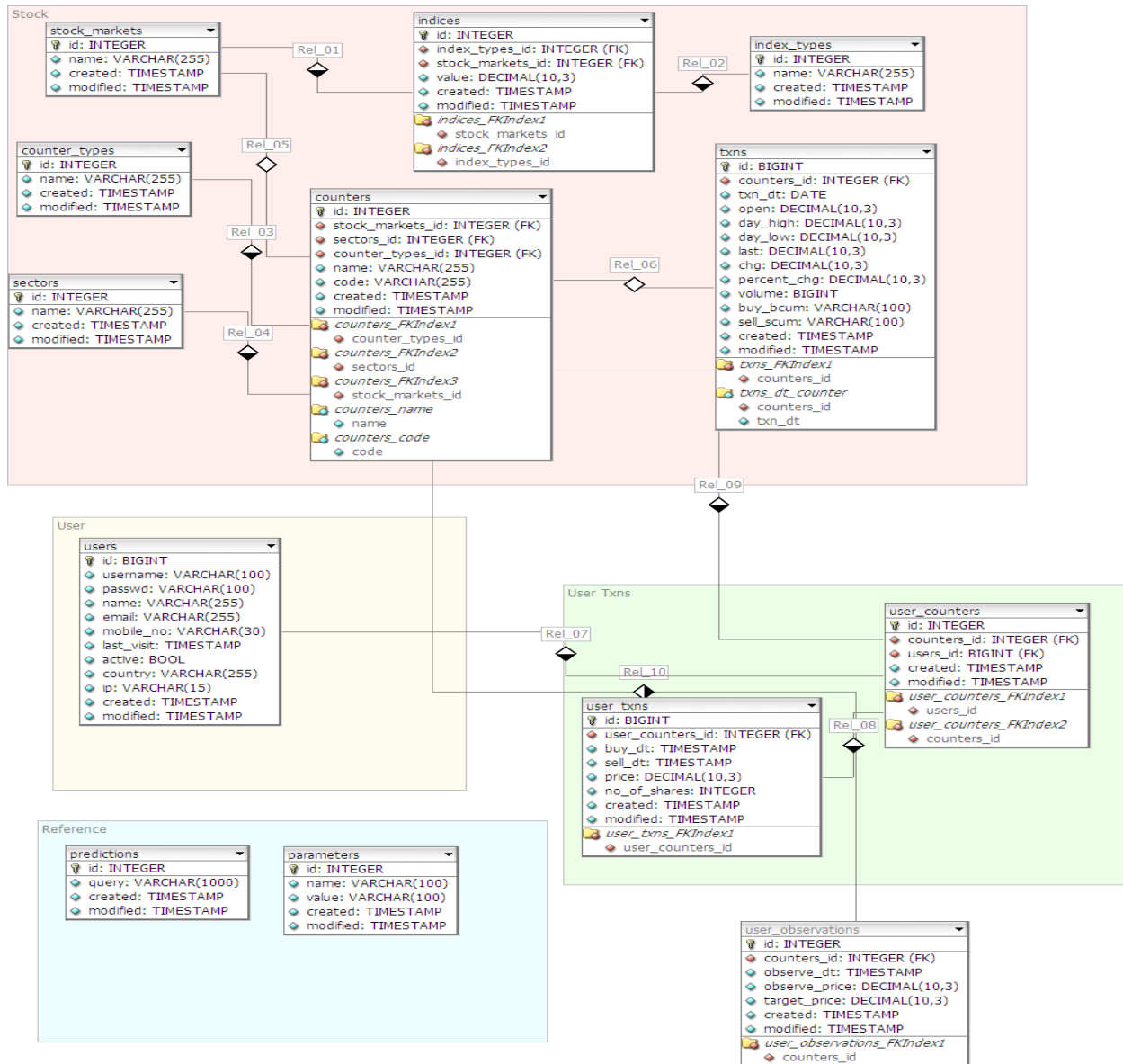
Relationships  
(Cardinality and Modality)



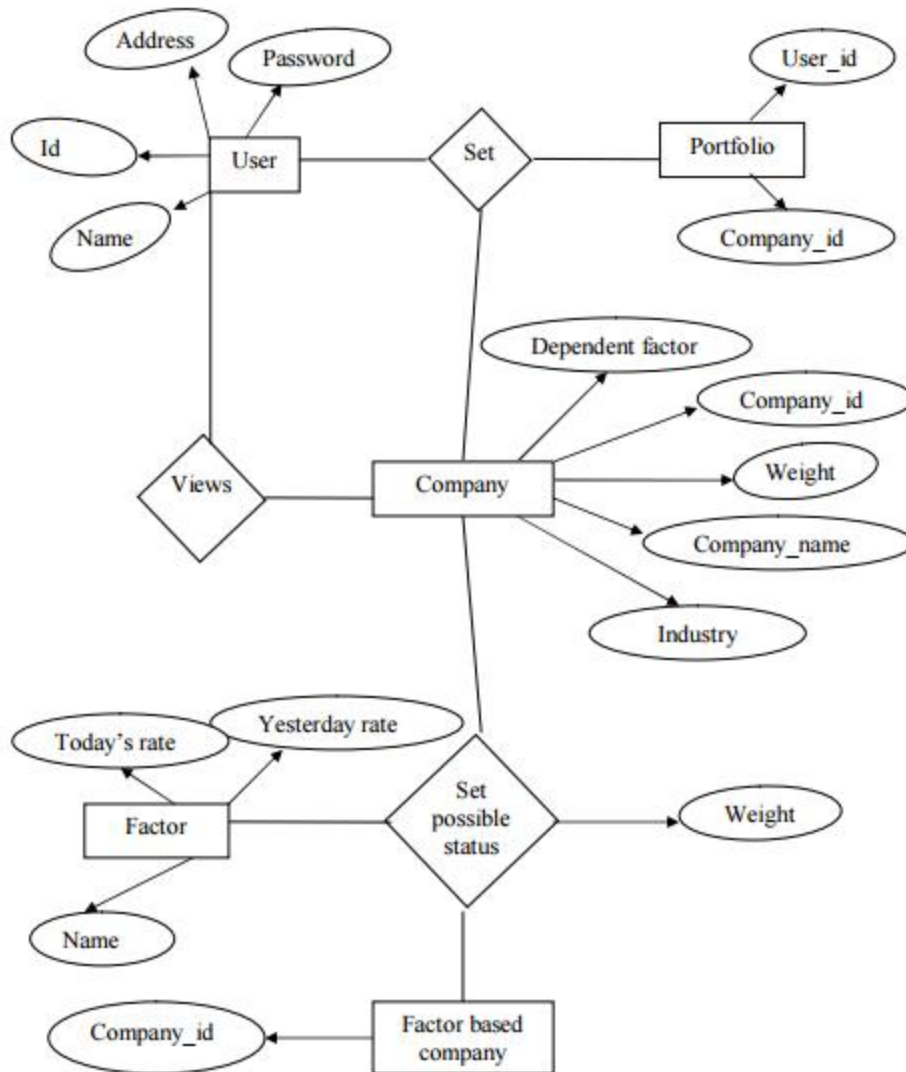
Many-to-Many







ER diagram

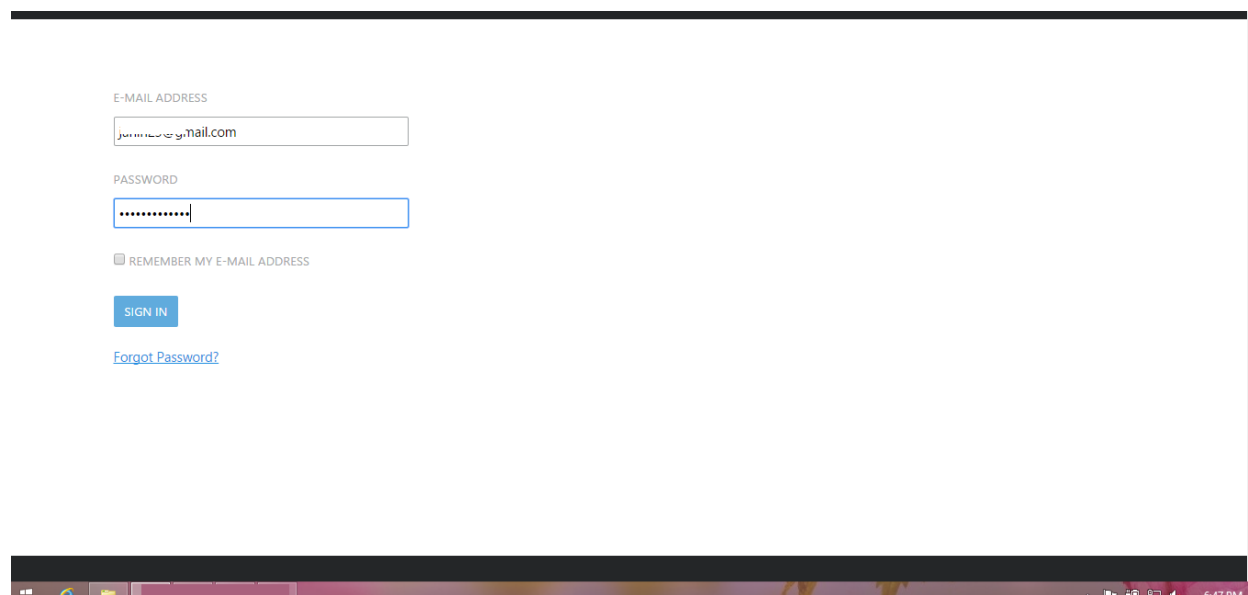


ER diagram

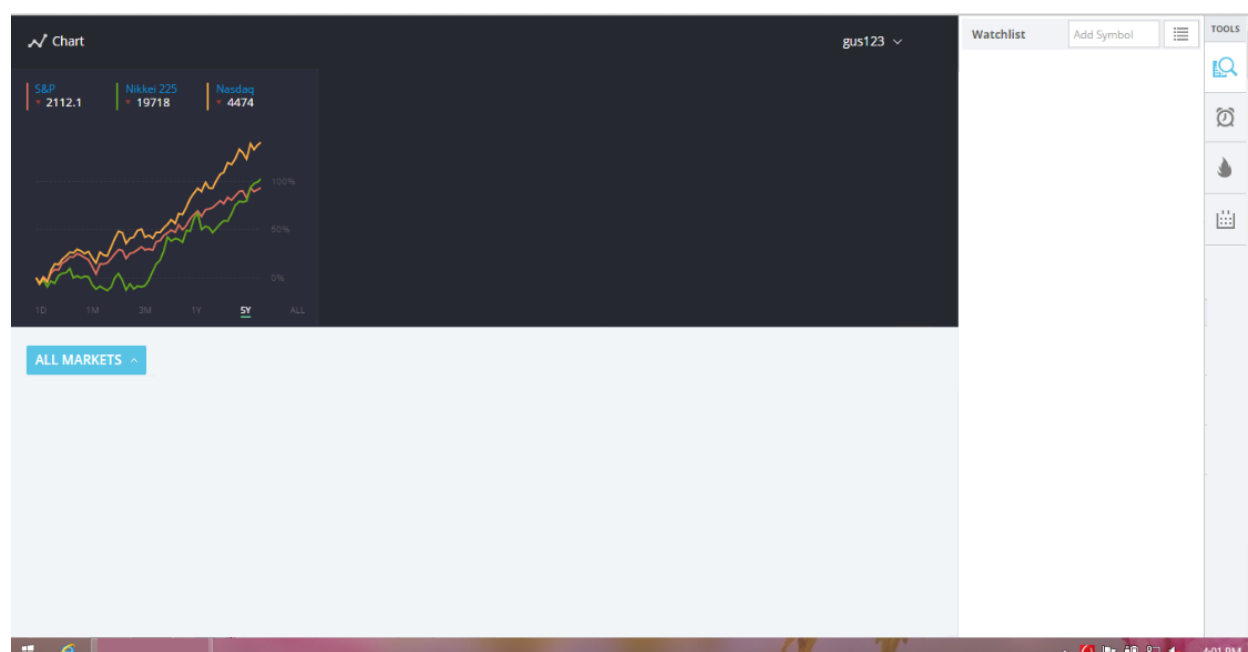
## CHAPTER 6

# IMPLEMENTATION

### 6.1 SCREEN SHOTS



#### Login page



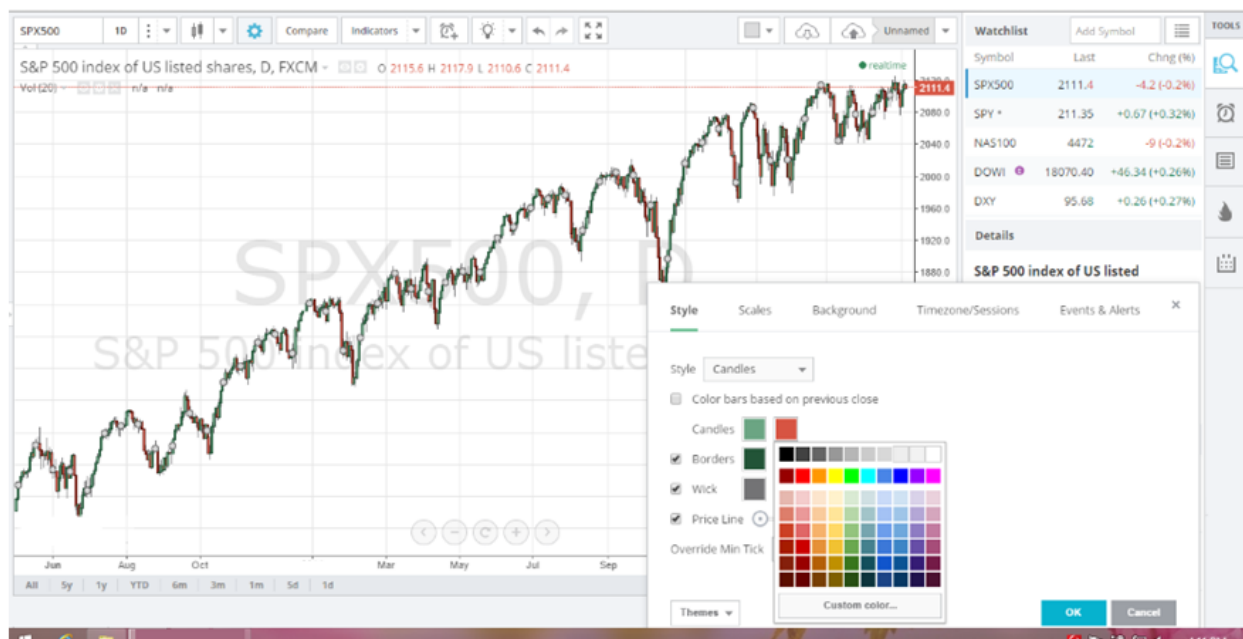
Control page with data source additions



Analysis page with custom options



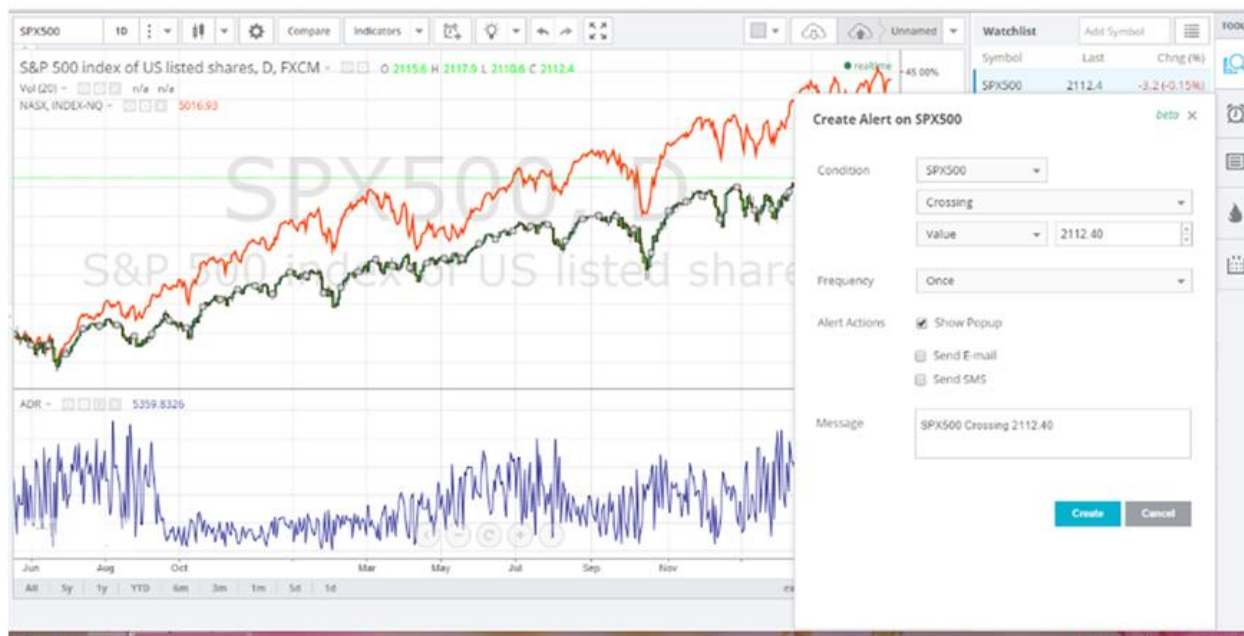
## Graphs selections



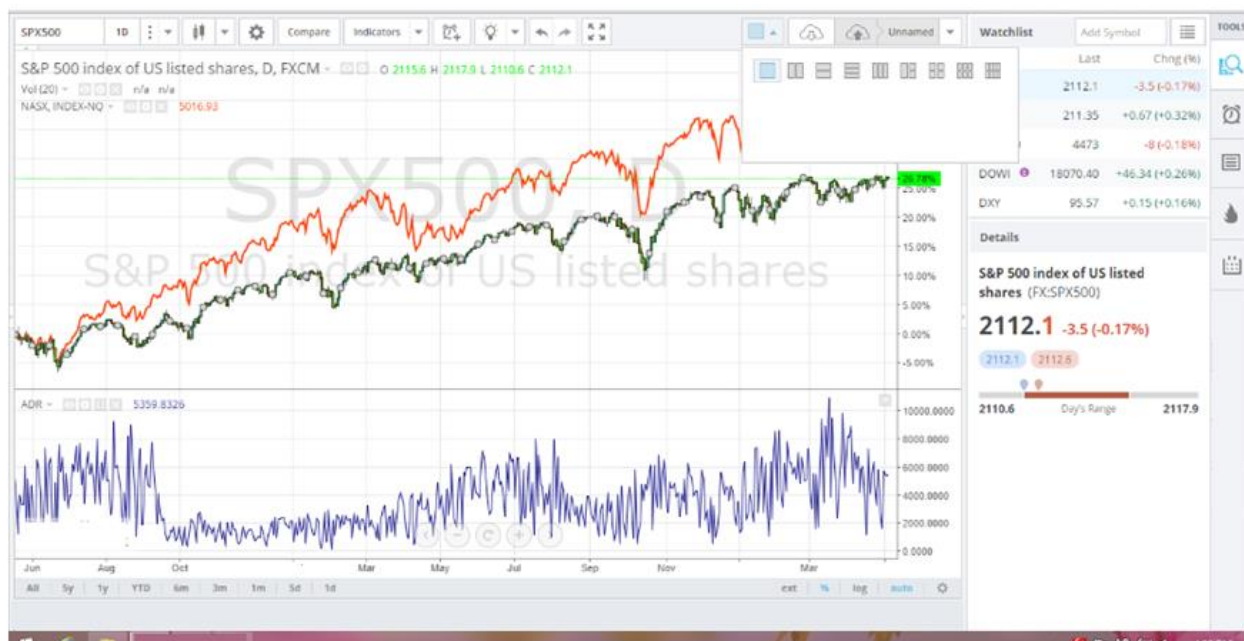
## Styles selections



## Monitoring and comparisons



Auto alert generation with custom reviews

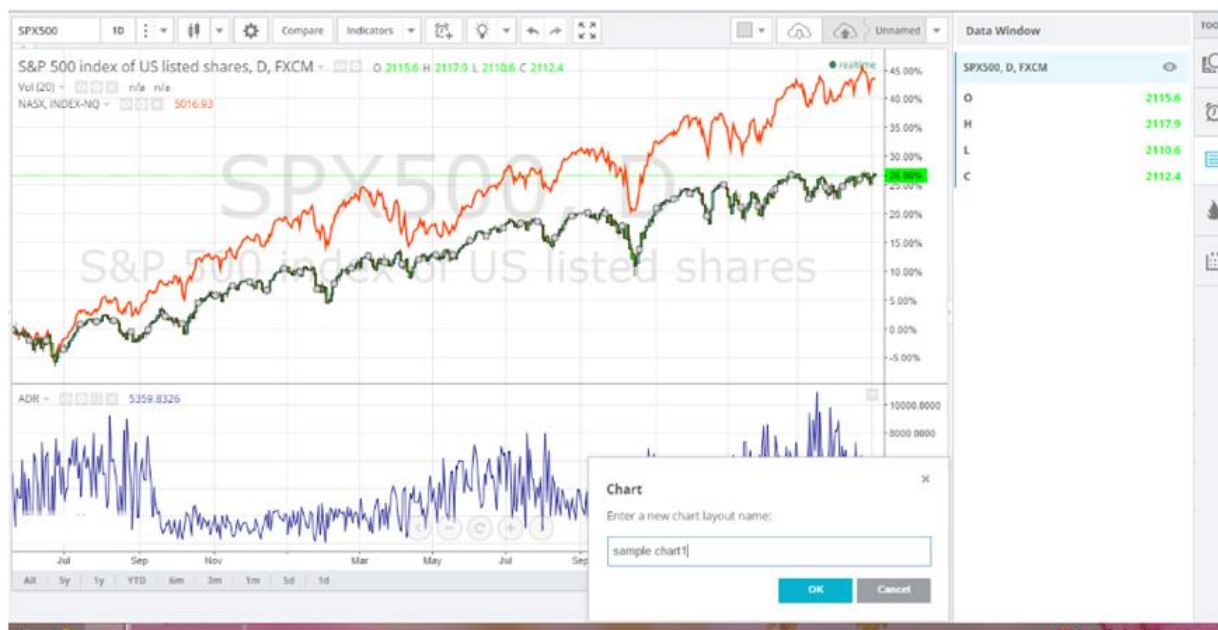


Screen divisions with multi window review



Hotlist-auto help provided by the system





Save the reports

## CHAPTER 7

### SOFTWARE TESTING

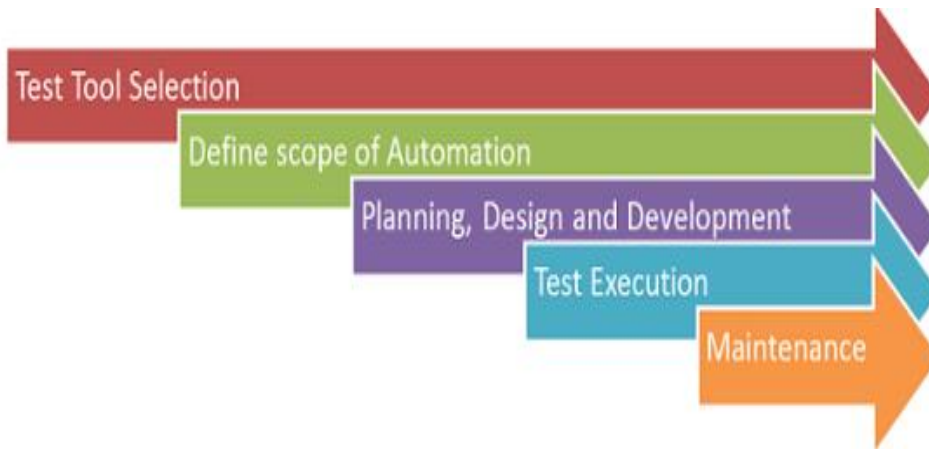
#### Software testing

Software testing is very much important and requires be properly identifying and producing as we want that all types of information references that have provided should be properly acknowledged. Software testing will be performed by the software department and all references of software have to be checked individually with different types of conditions. As the conditional references will be changed different types of prospectus will arrange in the real time. Working is required to be supported and these conditional references are required to be acknowledged in such a way that the use of can have more define understanding.

Software testing will be done with the help of multiple test cases in each test cases will be documented also for proper understanding in the future. The acceptance is very much important so we have to redefine all the related work ability in such a way that any type of environment it can support and all types of requirement based acceptance can be provided. Elaboration will be performed with the help of the software testing where multiple types of will be checked and each and every scenario and condition has to be properly identify so that proper quality based tool can be provided to the user. Considerations of the testing process that are provided have to the first outline because we have to check different types of numeric pattern structuring should require



the different types of scenario should be tested. Testing is important because it will be having a direct impact on the decisions of the clients.



Figure

Reference taken for the testing process is shown

## Unit testing

Unit testing is performed as link and acknowledge different types of unit provision properly so each and every feature will be first check individually for example the integrations and Information retrieval for different types of relational conversions based on charts

Proper accomplishment of the data flow will be checked

The references of the Information retrieval will be properly identified for the accuracy

The related monitoring page will be checked as we have to consider different types of customizations options

All the related customizations provisions based on different types of charts will be acknowledged

The related provisions of calculations that are required to be performed will be also undertaken as we want that all types of conditional variations of the formulas should be supported and even customers can get the comparative view

## Automation testing

Automation Testing is referenced in such a way that all types of automated provisions can be implemented to check different types of conditional working

The conditional references are required to be checked properly; all types of related conditions and scenarios in the real-time as to check with proper variation so forget the Selenium software will be utilized and multiple types of conditions will be checked

Automation Testing will help us to save the time as all types of preferential work based on detailing off the error check will be done by the system

### Test cases

Serial no	Test-case	Test-Input	Results	Actual	Test Status	Check Severity
1	Login	Details provided	Details reference provided	Details of working settings provided	Pass	Critical
2	Users	Details provided	Accessibility provided	Associates can add	Pass	Critical
3	Analysis instance	Selective	Data conversions and charts are associated	Defined associations seen	Pass	Critical
4	Charts	Selective	Generated	Various types provided	Pass	Critical
5	Custom	Selective	Selective options used	Variation of options used eg time frame	Pass	Critical

6	Formulas	Added	Added on the frame	Implemented and calculations seen	Pass	Critical
7	Info	Automated	Auto generated	Updating seen	Pass	Critical
8	Comparison	Selection	Options provided	Selective variations and data stat seen	Pass	Critical
9	Triggers	Rules setups	Inputs provided	Auto alerts can be seen	Pass	critical
10	Data transfer	Selective	Options and formats provided	Details of data transfer provided with selective options	Pass	critical

## CHAPTER 8

### CONCLUSION

We can conclude that references of hypothesis and other forecasting techniques of properly induced in the system because when we have acknowledge the system we have seen that all types of global identities can be considered which makes it more flexible as the references of

accomplishments will be higher. All types of consolidated working on a single system will help the companies to acknowledge different types of work perceptions properly. Associations can be properly defined and all types of related workability can be properly acknowledged in terms of the working condition. With the help of the system any consideration that are required to be generated can be properly customized in generated so the system provides multiple types of customizations provisions which can be properly utilized.

All types of references based on the graphical representations are also seen and found that proper conversions in forecasting references can be generated with the help of simple clicks with option selections. All types of conditional variations that are required to be analyzed with the help of different types of formula bases is also supported in the system which is quite easier to the recognized and with the help of these provisions multiple types of hypothesis variations can be acknowledged from single system. All types of generic preparation that are provided to the users in different references properly associated because when we have checked different types of market and the related identities we found that all types of compatibility support is provided in works properly in different types of preferential customization that are provided on the monitoring page.

## **CHAPTER 9**

### **FUTURE ENHANCEMENTS**

Future enhancement references are quite important as we have to check for the new requirement of the associated customers and any type of new reference arises it has to be properly redefined. Unconditional references that are generated for the implementation in the future is listed as following-

The references of understanding that has to be achieved for different types of conditional working is provided with the help of different types of video includes

Cloud integrations can be supported so that if needed any type of information transfer can be organized

The graphical options that have provided can be included with some more customized variations so that systematic workability can be referenced

## **CHAPTER 10**

## **BIBLIOGRAPHY**

### **PHP**

"PHP: News Archive – 2019". 19 March 2020. PHP 7.4.4 Released March 2020.

"PHP on Hormones – history of PHP presentation by RasmusLerdorf given at the MySQL Conference in Santa-Clara, California"

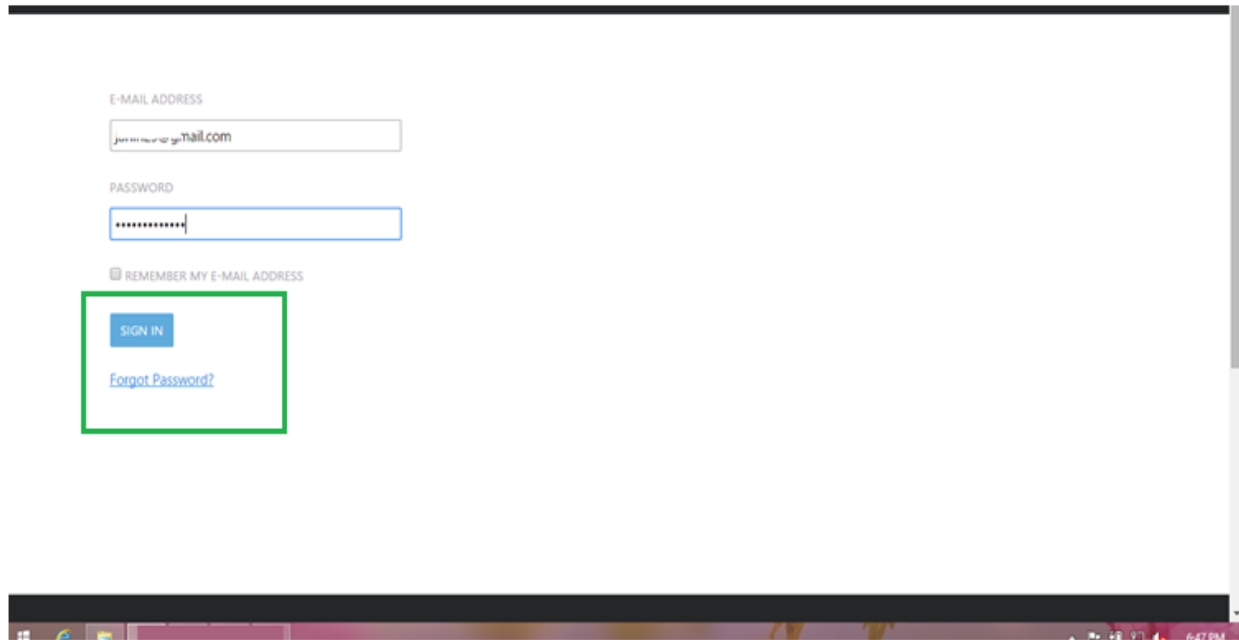
### **Sites**

[www.ece.iit.edu](http://www.ece.iit.edu)

[www.wikipedia.com](http://www.wikipedia.com)

[www.google.com](http://www.google.com)

[www.scribd.com](http://www.scribd.com)



E-MAIL ADDRESS

PASSWORD

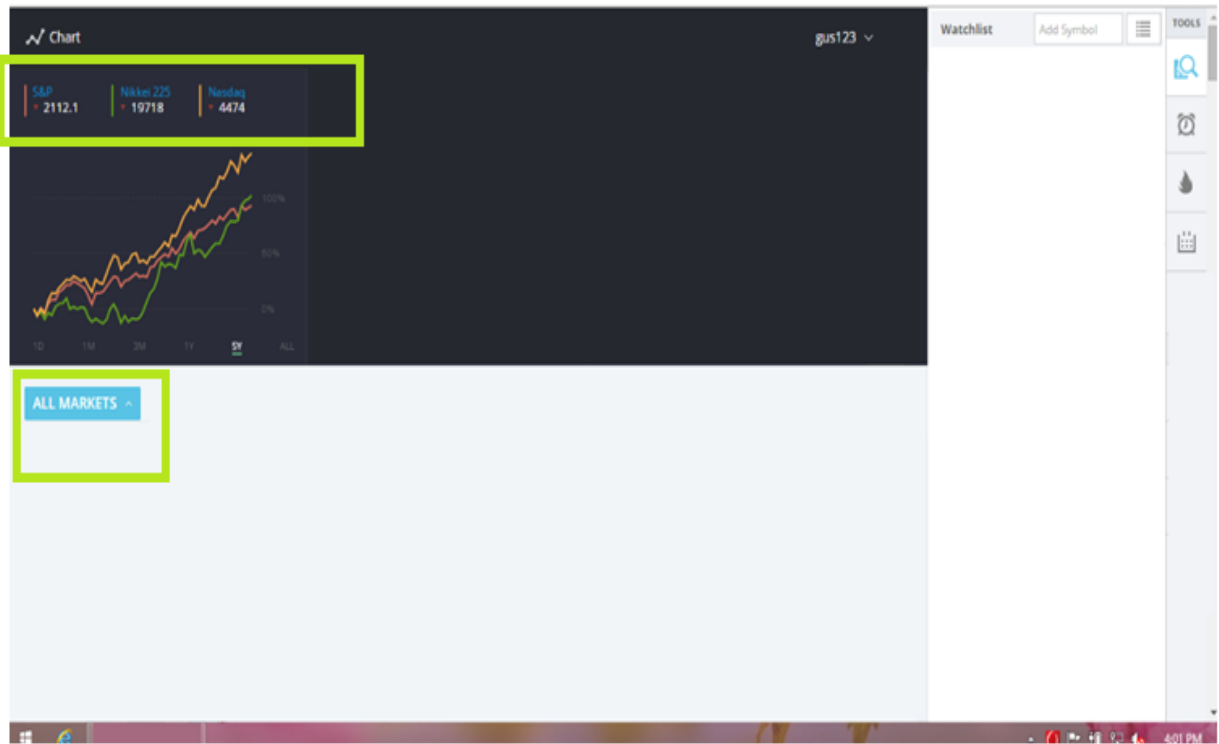
REMEMBER MY E-MAIL ADDRESS

[SIGN IN](#)

[Forgot Password?](#)

The image shows a login form with a green rectangular box highlighting the 'SIGN IN' button and the 'Forgot Password?' link. The form includes fields for 'E-MAIL ADDRESS' (containing 'jane.smith@gmail.com') and 'PASSWORD' (containing '\*\*\*\*\*'). There is also a checkbox for 'REMEMBER MY E-MAIL ADDRESS'. The bottom of the image shows a Windows taskbar with the Start button, taskbar icons, and a system tray with the time '6:47 PM'.

Login page



Control page with data source additions

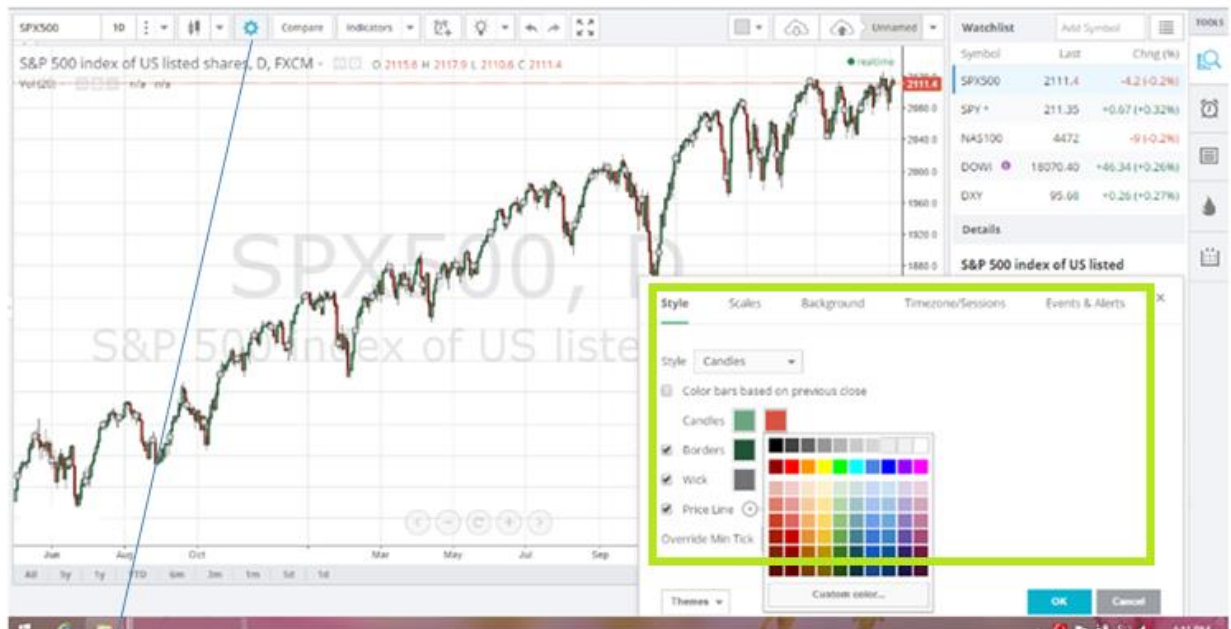


Analysis page with custom options





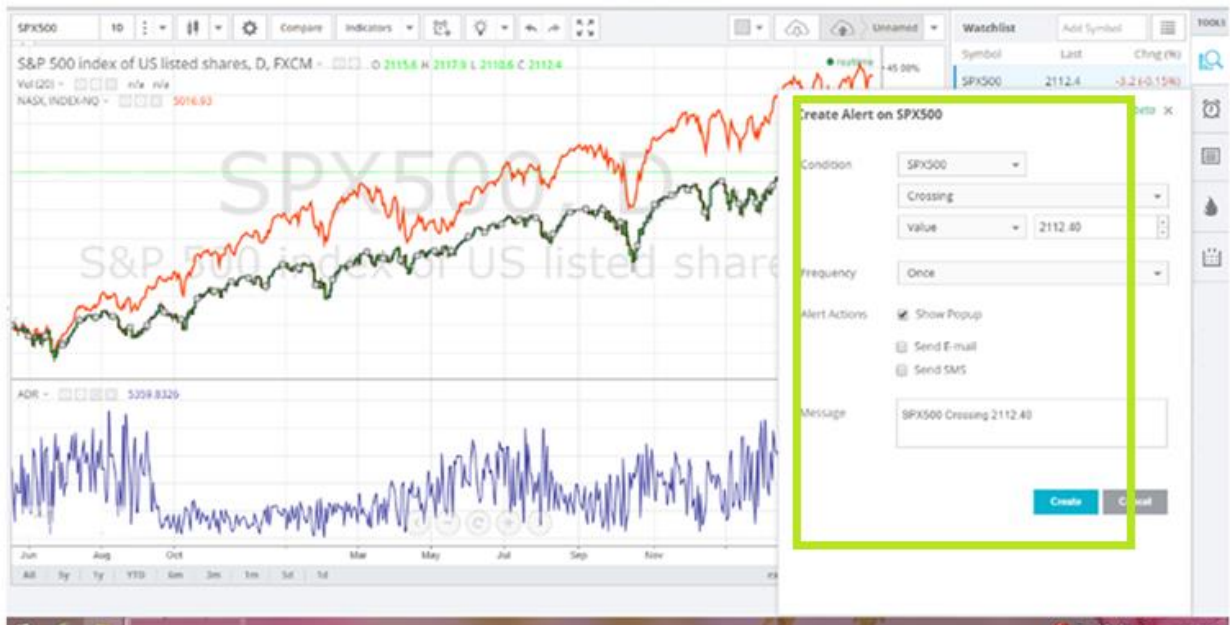
Graphs selections



Styles selections



Monitoring and comparisons



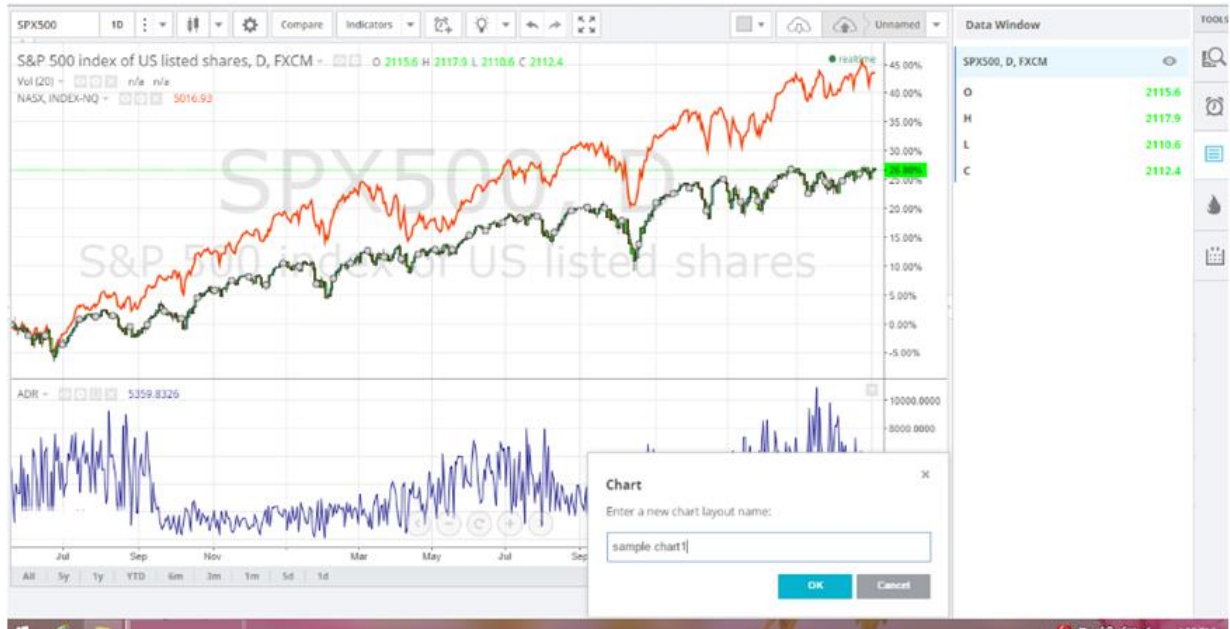
Auto alert generation with custom reviews



Screen divisions with multi window review



Hotlist-auto help provided by the system



Save the reports