

“TRADE MONITORING”

Increment-3

By

GROUP-8

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1. Introduction:

Trade Monitoring website started when an idea came that we could make a website to make the stock marketing easier and faster. Moreover, this website serves many people to buy and sell shares online with no need to go or visit the real company.

Our website allows many people around the world to communicate and do their trading through our website.

1.1. Requirements Specification:

- Trade Monitoring system requires the database to store the company's stock details and users account details and also past market details.
- Trade Monitoring system requires the external web services like Stock quotes, Stock Ticker and Finance charts.
- System should be user friendly and maintains all the stock information, payments and user accounts.

1.2. Software Interface

- **Client:** Web Browser, Android APP.
- **Framework:** Ionic Framework, Microsoft Visual studio 2010.
- **Data Base Server:** Mongo LAB and SQL Server 2008.

1.3. Non Functional Requirements:

1.3.1 Performance:

Performance is always a programming issue not related to any physical or hardware part of the system. Since we have gathered every piece of information is needed for the development and performance orientation.

1.3.2 Reliability:

Since the application is being developed through web server pages which are from the family of ASP.NET, Angular JS, Bootstrap the most famous efficient and reliable languages, so it is reliable in every aspect until and unless there is an error in the programming side. Thus the application can be a compatible and reliable one.

1.3.3 Availability:

Making all the components available to the authenticated user is the major responsibility of the developer. Thus care should be taken in order to ensure the perfect available measures at times when needed.

1.3.4 Security:

Making all the components available to the authenticated user is the major responsibility of the developer. Thus care should be taken in order to ensure the perfect available measures at times when needed.

1.3.5. Maintainability:

The main aim of any application is to save the data efficiently and its perfect maintenance avoiding the mistakes. This application can be able to provide such maintenance of data through its functional modules that has been generated.

1.3.6. Portability:

This System must be flexible such that user with basic background in using computers can quickly use the system and learn to use the project. The system must have a friendly user interface.

1.3.7. Design Constraints:

For using our website customers have to use the web site address and can login into the session. These constraints are related with the real world that the persons follow before the system has been installed. It is not often taken into consideration that the requirements that are not necessary in the project may be gathered but are neglected in the design.

2. Objectives and Features.

2.1 Existing System.

There are many websites and banks providing the trade marketing through online (Buy and sell shares online). Everyone has providing the good services but still some features need to be included in the existing system. So we have designed an application which provides all the features including existing and new features. The coming section we are going to explain about our new features.

2.2 Proposed System.

There are many websites provides may be the same services (Buy and sell shares online) but why our website is different?. Because our standards and our website structure helps you a lot more than the other websites. In existing there were no direct interactions with customer

services. We have provided the appointment feature to directly contact with the customer services to resolve their issues.

In designing our website, we kept in mind:

- The ease of using our website.
- How fast can you get what customers are looking for.
- Providing the preferred companies to buy and sell shares from them.
- Display the actions of a company for the last 15 years.
- No need to visit the real company either sign papers to complete operations.
- Providing the voice recognition service to run the application.
- Providing the 24*7 customer services
- Providing the face to face customer services through appointments.

3. Import Existing Services/API

We have used some existing API's in our application to get the latest stock quotes, stock Charts, trading historical data. The below mentioned API's we have used in our application.

1. <http://ichart.finance.yahoo.com/table.csv?s={0}&c={1}>
2. <http://finance.yahoo.com/d/quotes.csv?s=AAPL+ACH+BAB+DAL+DWSN+EXPE+FCF+GYRO+HFWA+INFY+LAKE+NATI+OFC+PCTY+SAND+VTA+WPPGY+XLV+YHOO+YUM&f=snbaopl1>
3. <http://download.finance.yahoo.com/d/quotes.csv?s>
4. [http://download.finance.yahoo.com/d/quotes.csv?s=" + symbol + "&f=s1d1t1c1hgvbap2](http://download.finance.yahoo.com/d/quotes.csv?s=)
5. [http://ichart.finance.yahoo.com/w?s=" + symbol + "&" + rand_no](http://ichart.finance.yahoo.com/w?s=)

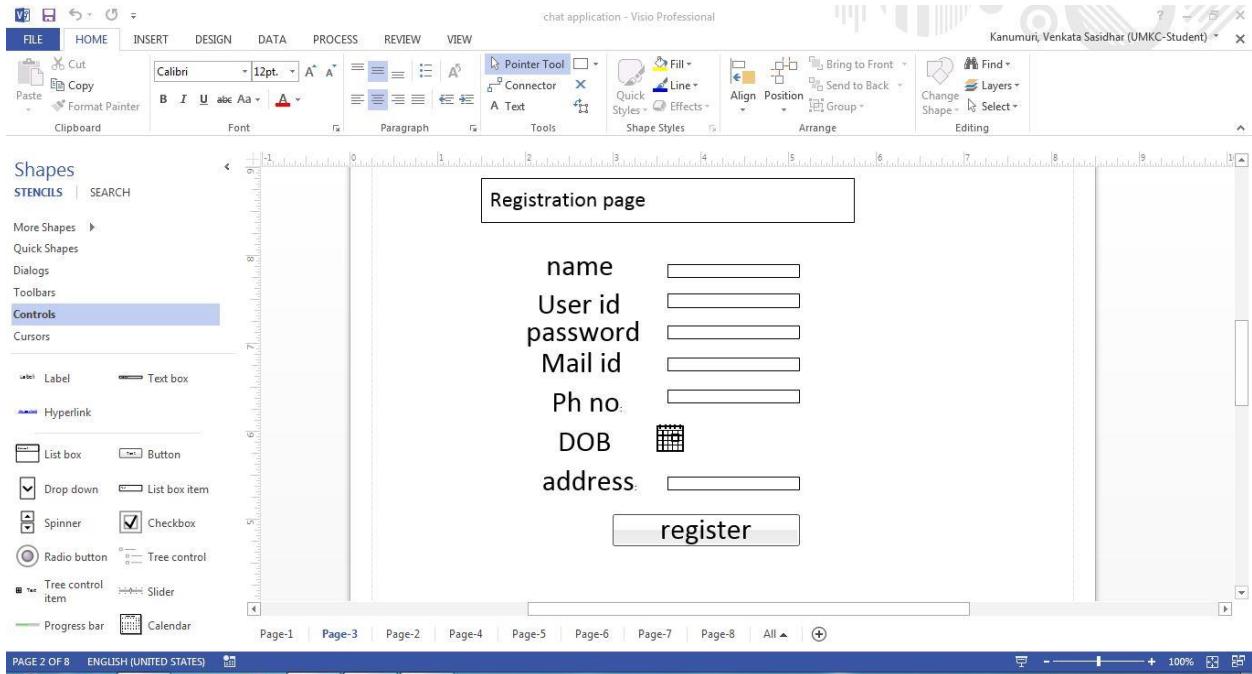
4. Detailed Design of services

The SDD is a representation of a software system that is used as a interface to communicate software design information. This document contains description of the high level architecture used to develop the system. Communicating at a high level, it will form the basis for the Software Detailed Design and implementation.

4.1 Mockups and Wireframes

Wireframes: Wireframes are like a prototype describes and evolutes how the system design should be. In the designing phase first we will analyze the system design through mockups.

1. Registration.



2. Login.



The image shows a login form with a header featuring a small logo and a registration link. It includes fields for email or phone number and password, a submit button, and a forgot password link.

New to chatforall click here for [registration](#)

Mail or ph :

Password :

submit [?Forgot password](#)

3. User Home Page.



The image shows a user home page with navigation icons (user profile, house, search, cart), a search bar, and a sidebar menu for stock information.

Stocks info

	Buy stocks
	View stocks
	Sell stocks

Search stocks 

Mockups: Mockups are the user interface diagrams created from Html, Html4, CSS, Bootstrap, and Angular JS.

1. Portfolio Page :

The screenshot shows a web browser window with multiple tabs open. The active tab displays a portfolio monitoring application. The header includes navigation links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. Below the header, there is a section titled "Our Services" with links to Reports, Statements, Mobile Trading, Cash Box, Make Appointment, and Appointment Details. Another section titled "Personal Information" lists Profile Details, Update Profile, Membership ID, Change Password, and Contact Us. The main content area features a table of trade history with columns for Order Date, Symbol, Quantity, Price, Market Price, Total Cost, Total Market Cost, Profit/Loss, and Sell. Below the table, summary statistics are displayed: Total Cost (When User Bought) : 436.11, Total Market Price (Current) : 455.89, and Profit/Loss : 19.78. The bottom of the page includes a copyright notice, a search bar, and a Windows taskbar.

ORDER DATE	SYMBOL	QUANTITY	PRICE	MARKET PRICE	TOTAL COST	TOTAL MARKET COST	PROFIT/LOSS	SELL
11/3/2015 12:10:59 PM	HFWA	4	18.64	19.67	74.56	78.68	4.12	<button>Sell</button>
10/26/2015 1:25:24 AM	INFY	2	18.39	17.490	36.78	34.98	-1.80	<button>Sell</button>
10/26/2015 1:23:14 AM	LAKE	2	14.95	12.80	29.9	25.6	-4.30	<button>Sell</button>
11/3/2015 12:31:52 PM	LAKE	2	12.7	12.80	25.4	25.6	0.20	<button>Sell</button>
10/26/2015 1:22:35 AM	NATI	2	28.65	30.10	57.3	60.2	2.90	<button>Sell</button>
11/3/2015								

Total Cost (When User Bought) : 436.11
Total Market Price (Current) : 455.89
Profit/Loss : 19.78

2. New order screen.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a new order form for "TRADE MONITORING". The header includes a logo, navigation links for Home, Portfolio, Market Watch, New Order, Order History, and Signout, and a toll-free number: Toll Free : 05 713 091 416. Below the header, there is a section titled "Our Services" with links to Reports, Statements, Mobile Trading, Cash Box, Make Appointment, and Appointment Details. Another section titled "Personal Information" lists Profile Details, Update Profile, Membership ID, Change Password, and Contact Us. The main content area features a "Place New Order" form with fields for Symbol (dropdown menu), Company Name, Current Market Price, Available Shares, Quantity, Order Type (dropdown menu), Price, From, To, and Validity. A "Place Order" button is at the bottom of the form. The bottom of the page includes a search bar and a Windows taskbar.

3. Schedule appointment page.

The screenshot shows a web browser window with the URL <https://blackboard.umkc.edu/TradeMonitoring/appointment.aspx>. The page has a header with a yellow house icon and navigation links: Home, Portfolio, Market Watch, New Order, Order History, and Signout. Below the header, there are two main sections: 'Our Services' on the left and 'Schedule Appointment Here' on the right. The 'Our Services' section contains a list of icons for Reports, Statements, Mobile Trading, Cash Box, Make Appointment, and Appointment Details. The 'Schedule Appointment Here' section includes a 'Select Date:' dropdown and a calendar for November 2015. The calendar shows days from 25 to 30, with November 11 highlighted in green. A legend at the bottom indicates that red squares represent 'Booked' slots, green squares represent 'Available' slots, and orange squares represent 'No Slots'. At the bottom of the page, there is a copyright notice: 'Copyright © 2008 Trade Monitoring @ trademonitoring.somee.com'. The Windows taskbar at the bottom shows various application icons and the date/time: 12:00 PM IN 11/11/2015.

4. Change Password Page.

The screenshot shows a web browser window with the URL <https://blackboard.umkc.edu/TradeMonitoring/ChangePassword.aspx>. The page has a header with a yellow house icon and navigation links: Home, Portfolio, Market Watch, New Order, Order History, and Signout. Below the header, there are two main sections: 'Our Services' on the left and 'CHANGE PASSWORD HERE' on the right. The 'Our Services' section contains a list of icons for Reports, Statements, Mobile Trading, Cash Box, Make Appointment, and Appointment Details. The 'CHANGE PASSWORD HERE' section contains input fields for 'Membership ID', 'Old Password', 'New Password', and 'Confirm Password', along with a 'Change Password' button. At the bottom of the page, there is a copyright notice: '..... A Place for Marketing and Innovation'. The Windows taskbar at the bottom shows various application icons and the date/time: 12:01 PM IN 11/11/2015.

a) Architecture Diagram.

This aims at decomposing the entire project into many modules, concurrent processes and data which will help in developing the software easily. A top level description of Project will be given, dividing it into its modules and explain their relation. The modules in the system contain public methods that run parallel processes and use data that has been modified during the system's active life period.

A module is a well-defined subsystem that is useful in various applications. Each module has a well-defined purpose. The modules can be individually compiled and can be stored individually in a library. These are easier to build. The entire project is decomposed into 3 modules.

- **Front module (GUI):**

This module basically provides a graphical interface for those who cannot work with command line based applications.

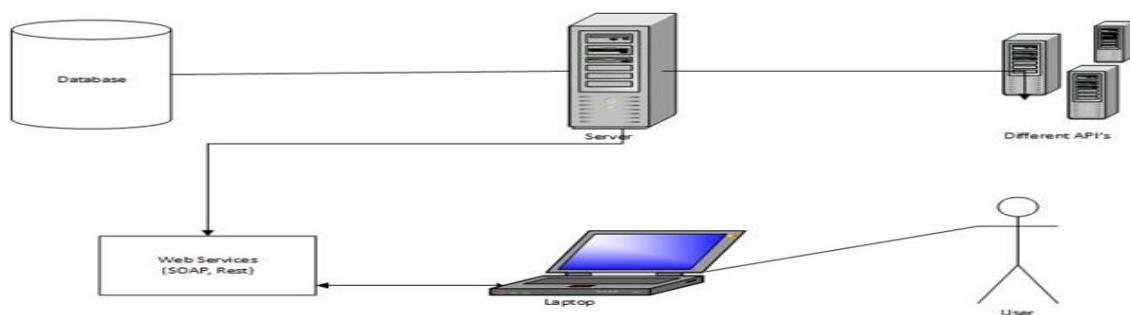
- **Database module:**

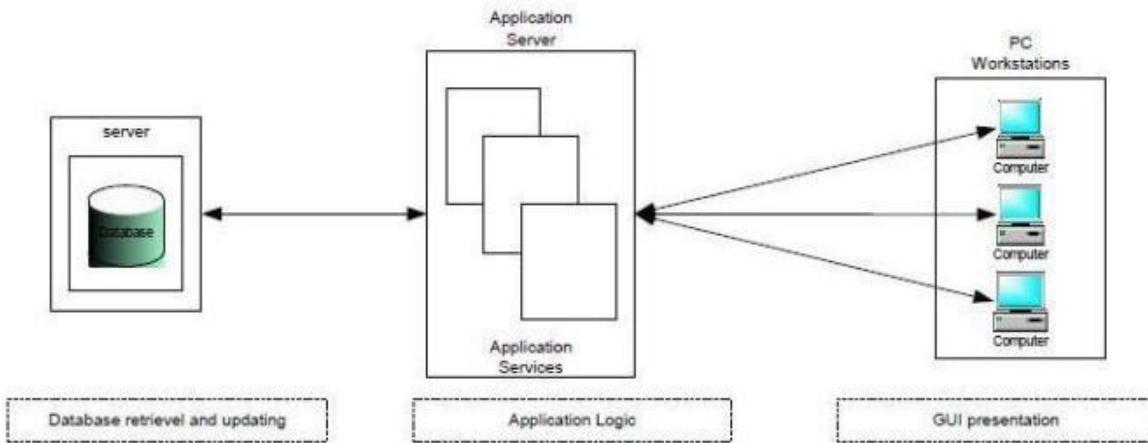
This module provides the main functionality for the information management system.

- **Middle module:**

This module provides a connection between the front and the business tier. It includes a request module and is as an interface that can be used by the front-tier.

- **Business module:** This module contains all the functionalities that validate, update and control the data entering into the database. Also this module is responsible to validate user.





4.3. Class Diagram

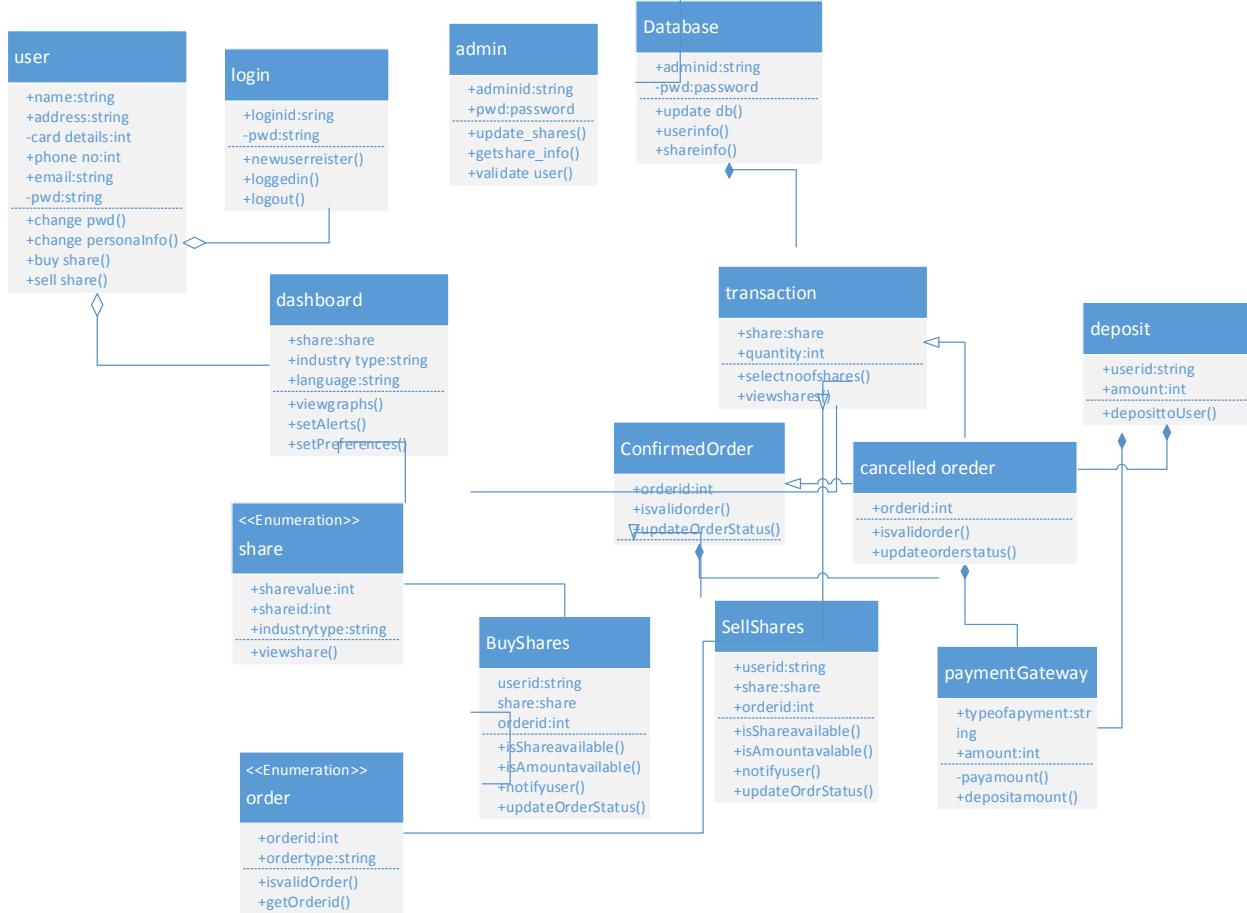
Used to represent various classes present in the system and relationships between them. Gives clear picture of the system and communications between classes present in the system.

- In this system User or the investor enters the system, if the user enters the site for the first time he/she has to Register with the system
- Then the Admin provides login details for the user after successful registration.
- Now the user can login with the system with his login credentials.
- Here he can view the shares of companies and view share values, analyze the shares.
- Then the user can buy or sell shares and make payments through Payment gateway.
- He can check if quantity of shares is available or not. If the user wishes to cancel the order he can or else continue to checkout.
- After buying or selling shares the user can continue to view shares or logout of the system.

Here is a list of classes involved and the diagram below represents the relationships involved between them.

- User
- Login
- Share
- Order
- Transaction
- Admin

- Database
- Buy shares
- Sell shares
- Payment gateway
- Confirm order
- Cancelled order
- Deposit



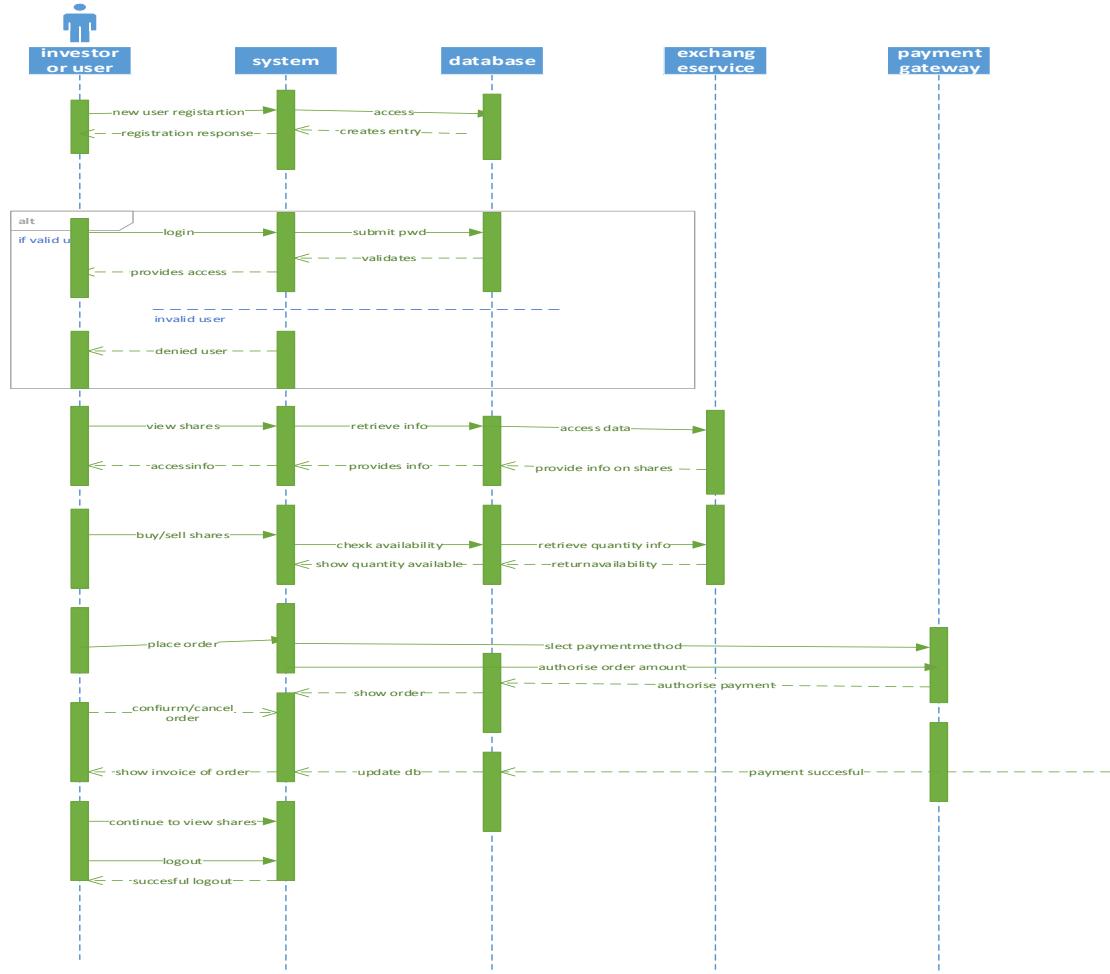
4.4. Sequence Diagram

This diagram shows the interactions between various objects present in the system. The entire set of communications is represented by using messages with respect time.

This system contains the following objects

- User or the investor
- System

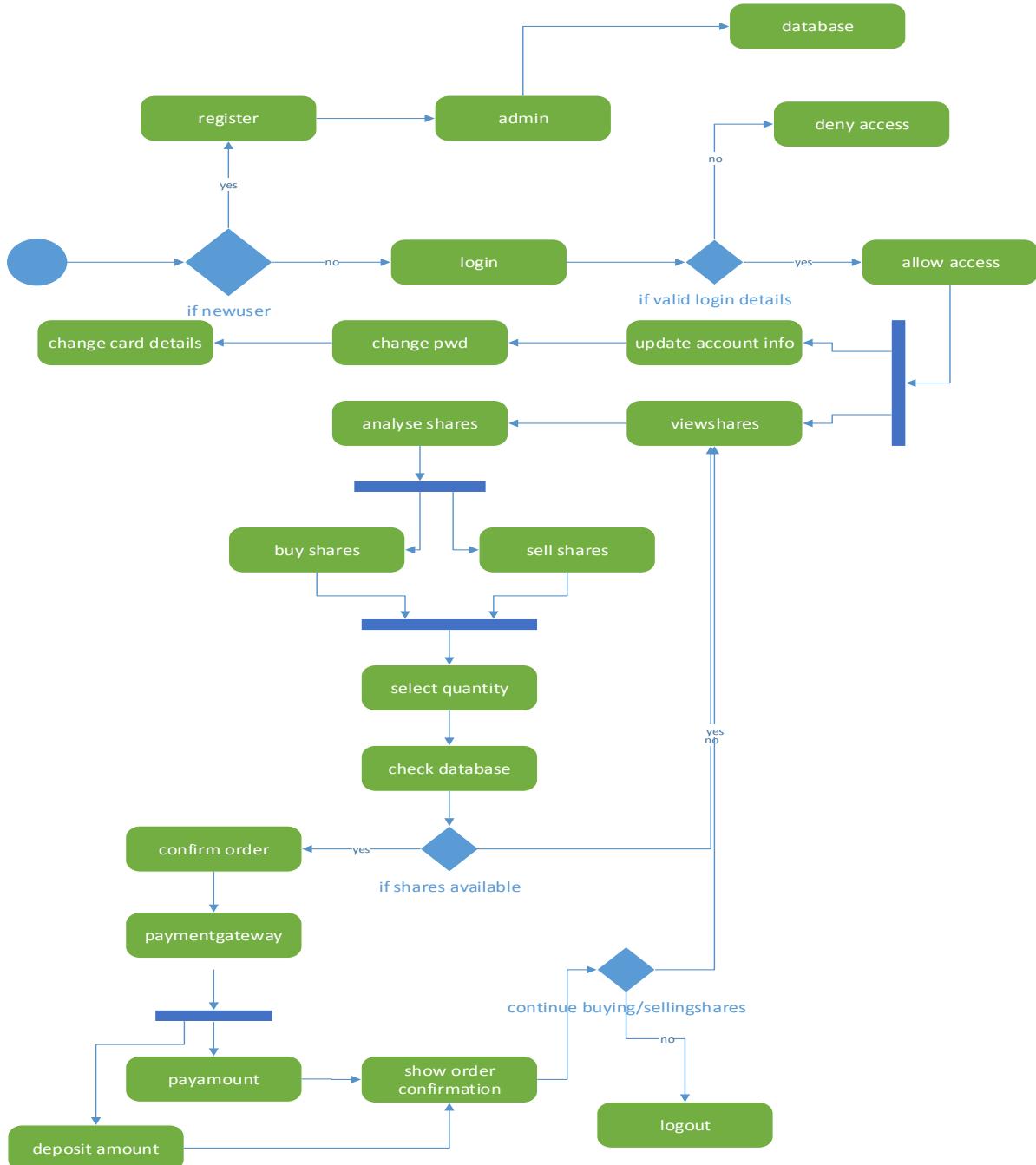
- Database
- Exchange service
- Payment gateway
- The user retrieves the share information from the exchange service provided in the system in the form of graphs, the messages between them is represented by the diagram below



4.5. Activity Diagram

This diagram shows the flow of activities involved in the system i.e.; entire workflow of the activities can be determined in this activity diagram.

The following diagram gives the entire representation of the workflow of our trade monitoring system



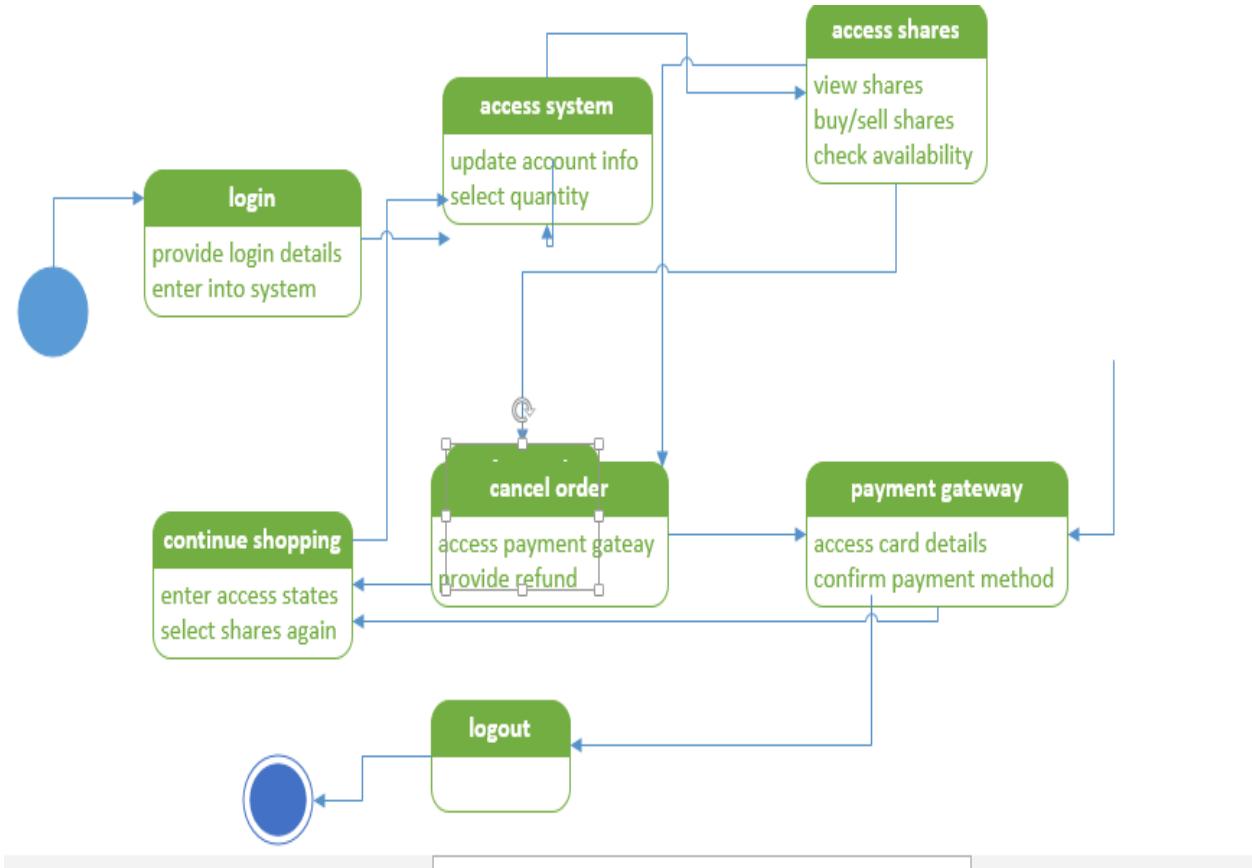
4.6. State Chart Diagram

This diagram represents the behavior of the system and describes various states present in the system.

The states involved in this system are represented in the following diagram

- Login

- Access system
- Access shares
- Continue shopping
- Cancel order
- Payment gateway
- Logout



4.7. Use Case Diagram

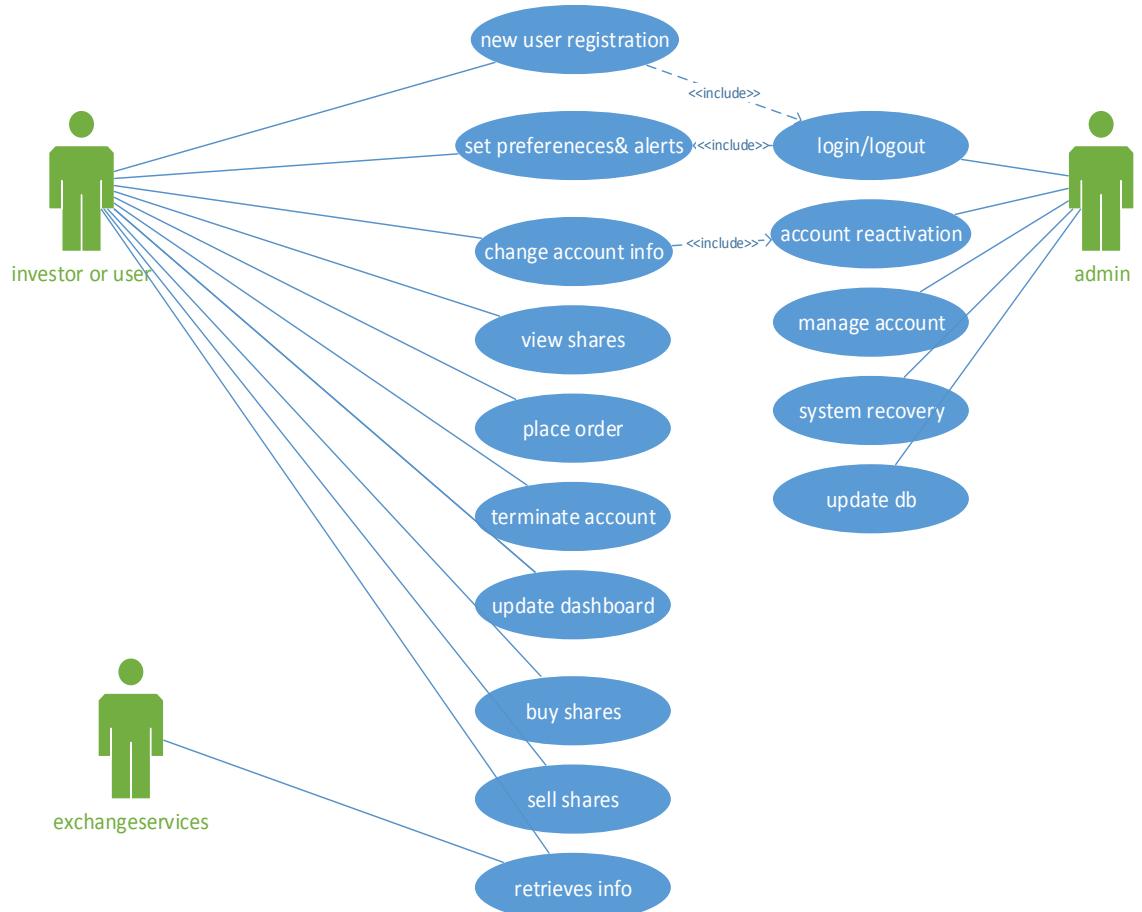
Use case diagram is the structure diagram which shows the communications among the use cases, actors in the system. Use cases are the elements present in the system

Actors involved are

- User
- Admin
- Exchange service

Use cases involved are

- New user registration
- Set preferences alerts
- Change account info
- View shares
- Login/logout
- Account reactivation
- Manage account
- System recovery
- Terminate account
- Retrieve amount
- Update database
- Place order
- View shares
- Sell shares
- Buy shares



5. Testing

5.1. Unit Testing

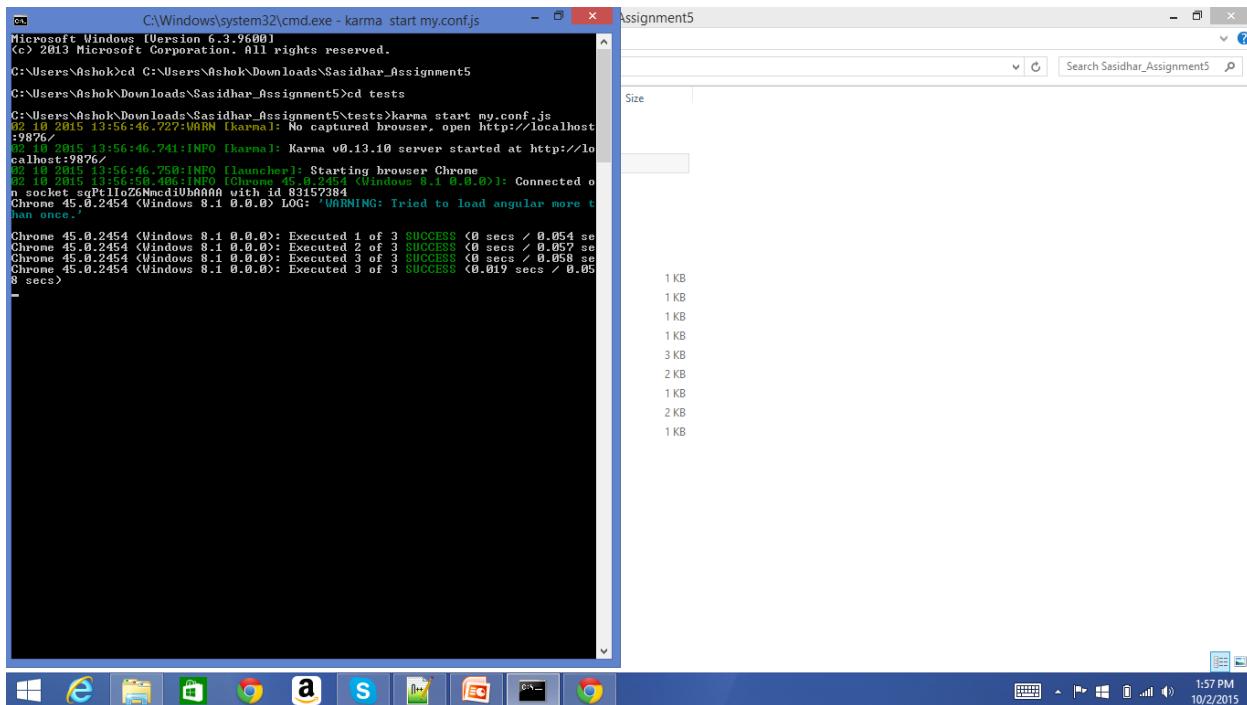
As the name indicates, the software or the system built is fragmented into small parts called as “units”. Where unit is like atom i.e.; smallest undividable part of the system or the software. Sometimes unit may be an entire module which is a main part of the system.

Unit testing facilitates the following advantages during the development of a system:

- Early detection of problems in the system
- Facilitates the changes to be made in the code as per customer requirements
- With unit testing Integration testing is easier
- Unit testing provides documentation for the developers
- The user interface part can be designed more effectively with unit testing.

Traditional Unit test cases consists of methods without parameters whereas Parameterized Unit test cases take parameters as functions and can be used for effective testing

Limitation: Unit testing does not allow identifying each and every bug in the system.



The screenshot shows a Windows desktop environment. On the left, a command prompt window titled 'C:\Windows\system32\cmd.exe - karma start my.conf.js' displays the output of a Karma test run. The log shows the server starting at http://localhost:9876, launching a Chrome browser, and executing three tests successfully. On the right, a file explorer window titled 'Assignment5' shows a folder structure with files named '1 KB', '1 KB', '1 KB', '1 KB', '3 KB', '2 KB', '1 KB', '2 KB', and '1 KB'. The taskbar at the bottom contains icons for various applications, and the system tray shows the date and time as 10/2/2015 1:57 PM.

```
C:\Windows\system32\cmd.exe - karma start my.conf.js
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\Ashok>cd C:\Users\Ashok\Downloads\Sasidhar_Assignment5
C:\Users\Ashok\Downloads\Sasidhar_Assignment5>cd tests
C:\Users\Ashok\Downloads\Sasidhar_Assignment5\tests>karma start my.conf.js
02 10 2015 13:56:46.722:WARN [karma]: No captured browser, open http://localhost:9876/
02 10 2015 13:56:46.741:INFO [karma]: Karma v0.13.10 server started at http://localhost:9876/
02 10 2015 13:56:46.750:INFO [launcher]: Starting browser Chrome
02 10 2015 13:56:50.486:INFO [Chrome 45.0.2454 (Windows 8.1 0.0.0)]: Connected on socket sgPtlloz6NmndiU9AAA with id 83157384
Chrome 45.0.2454 (Windows 8.1 0.0.0) LOG: 'WARNING: Tried to load angular more than once.'
Chrome 45.0.2454 (Windows 8.1 0.0.0): Executed 1 of 3 SUCCESS <0 secs / 0.054 secs>
Chrome 45.0.2454 (Windows 8.1 0.0.0): Executed 2 of 3 SUCCESS <0 secs / 0.057 secs>
Chrome 45.0.2454 (Windows 8.1 0.0.0): Executed 3 of 3 SUCCESS <0 secs / 0.058 secs>
Chrome 45.0.2454 (Windows 8.1 0.0.0): Executed 3 of 3 SUCCESS <0.019 secs / 0.058 secs>
```

5.2 Performance Testing

Performance testing is most likely used to determine the Performance of the system in every aspect.

Types of Performance testing:

- **Load Testing:** Here the maximum capacity or the bottlenecks of the system are determined in terms of server load etc.
- **Stress Testing:** Gives an idea on the boundaries of the system
- **Soak Testing:** This is done to determine if the system can persist continuous load as expected to.
- **Spike Testing:** In this testing the load of the system is suddenly increased to determine the performance.
- **Configuration Testing:** These tests are most likely to determine the configuration changes made
- **Isolation Testing:** This refers to retesting the system where fault occurs

Some of the performance goals include:

- Maximize throughput
- Reduce Server response time
- Reduce Render response time

Performance testing Results

1. Performance Testing on Place New Order Page.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a performance monitoring tool's analysis of a page titled "TRADE MONITORING". The page has a header with the text "... A Place for Marketing and Innovation" and a toll-free number "Toll Free : 05 713 091 416". Below the header is a navigation menu with links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. The main content area is titled "Our Services" and "Place New Order". A YSlow performance audit is shown with a grade of "Grade B" and an overall performance score of 88. The audit highlights several issues under the category "Make fewer HTTP requests", including "Use a Content Delivery Network (CDN)", "Avoid empty src or href", "Add Expires headers", "Compress components with gzip", "Put CSS at top", and "Optimize images". A note states: "Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps." At the bottom of the browser window, the taskbar shows various application icons and the system clock indicating "12:07 PM IN 11/11/2015".

2. Components result.

The screenshot shows a web browser window with multiple tabs open. The active tab displays the 'TRADE MONITORING' application. The page header includes the title 'TRADE MONITORING', a subtitle '.... A Place for Marketing and Innovation', and a toll-free number '05 713 091 416'. Below the header is a navigation bar with links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. A yellow arrow icon is positioned next to the Home link. The main content area contains a table with columns for TYPE, SIZE (KB), GZIP (KB), COOKIE RECEIVED (bytes), COOKIE SENT (bytes), HEADERS, URL, EXPIRES (Y/M/D), RESPONSE TIME (ms), ETag, and ACTION. The table lists four components: doc (1), css (1), cssimage (5), and favicon (1). Below the table is a note about the * type column indicating the component is loaded after window onload event and a † symbol denoting 1x1 pixels image that may be image beacon. At the bottom of the page is a copyright notice: 'Copyright © 2015 Yahoo! Inc. All rights reserved.' and a sidebar with links for Profile Details, Update Profile, Membership ID, and Change Password. The status bar at the bottom of the browser shows system information: ENG IN 12:09 PM 11/11/2015.

3.Statistics

The screenshot shows a web browser window with multiple tabs open. The active tab displays the 'TRADE MONITORING' application. The page header includes the title 'TRADE MONITORING', a subtitle '.... A Place for Marketing and Innovation', and a toll-free number '05 713 091 416'. Below the header is a navigation bar with links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. A yellow arrow icon is positioned next to the Home link. The main content area features a section titled 'Statistics' with the message 'The page has a total of 8 HTTP requests and a total weight of 119.4K bytes with empty cache'. It also includes two pie charts under 'WEIGHT GRAPHS' labeled 'HTTP Requests - 8' and 'HTTP Requests - 8'. The left chart, 'Empty Cache', shows a breakdown of file sizes: 1 HTML/Text (12.7K), 1 Stylesheet File (8.0K), 5 CSS Image (97.4K), and 1 Favicon (1.2K). The right chart, 'Primed Cache', shows a breakdown of file sizes: 1 HTML/Text (12.7K), 1 Stylesheet File (0.0K), 5 CSS Image (0.0K), and 1 Favicon (1.2K). Below the charts is a sidebar with links for Profile Details, Update Profile, Membership ID, and Change Password. The status bar at the bottom of the browser shows system information: ENG IN 12:09 PM 11/11/2015.

5.3 A/B Testing

This testing determines which design is the best fit for the system. This testing typically involves more clients or the user group of the system where the task of the clients is to grade the usability of the systems A and B.

- Based on the observations made from the clients the developers determine which design has to be finalized and the fields that require amendments are made based on the feedback of the user group.
- This is the prominent technique in the field of Business to improve the needs of the clients to attract more users into their Business

6. Implementation

6.1. Server side Implementation.

First, all the clients will be linked to our server for many reasons like authentication, storing profile information and applying the purchase. For that we have to create data access layer to manipulate the data and control it and display it so we used SQL server compact with MongoDB achieve that. For the application design code we used .ASP and AngularJS to link the code with the MongoDB data base.

Implementation results.

1. **Placing New Order :** Here user can buy the shares instantly with the current market value and can place the order for price range and time limit.

The screenshot shows a web browser window with multiple tabs open. The active tab displays a web application for placing new orders. The header of the application includes a logo, a slogan (".... A Place for Marketing and Innovation"), and a toll-free number ("Toll Free : 05 713 091 416"). The navigation menu at the top includes links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. On the left side of the page, there are two sections: "Our Services" and "Personal Information", each listing several options. The main content area is titled "Place New Order". It contains fields for Symbol (set to GYRO), Company Name (GYRODYNE COMPANY OF AMERICA INC), Current Market Price (26.74), Available Shares (66), Quantity (3), Order Type (Limit), Price (From: 55 To: 60), and Validity (Day). A "Place Order" button is located at the bottom right of the form. The status bar at the bottom of the browser shows the date and time (11/11/2015, 12:16 PM) and some system icons.

2. For placing the order with time limit user shares will be on hold and get order ID.

The screenshot shows a web browser window with the URL <https://blackboard.umkc.edu/> in the address bar. The main content area displays a "TRADE MONITOR" page with a yellow header bar containing "Home" and "Portfolio". A modal dialog box is open in the center, titled "Place New Order". The dialog form includes fields for "Symbol" (set to "GYRO"), "Company Name" ("GYRODYNE COMPANY OF AMERICA IN"), "Current Market Price" (26.74), "Available Shares" (66), "Quantity" (3), "Order Type" (set to "Limit"), "Price" (From: 55, To: 60), and "Validity" (Day). At the bottom right of the dialog is a "Place Order" button. Above the dialog, a message box says "The page at localhost:49160 says: Your Order ID is :90005". Below the dialog, there are "OK" and "Cancel" buttons. The background of the page shows a "Order History" section with some data and a "Signout" link. The status bar at the bottom of the screen shows "Waiting for localhost..." and the date/time "IN 11/11/2015".

3. Portfolio Page (Displays all the Bought shares with profit and loss details).

The screenshot shows a web browser window with the URL <https://blackboard.umkc.edu/> in the address bar. The main content area displays a "TRADE MONITOR" page with a blue header bar containing "Home", "Portfolio", "Market Watch", "New Order", "Order History", and "Signout". A sidebar on the left lists "Our Services" (Reports, Statements, Mobile Trading, Cash Box, Make Appointment, Appointment Details) and "Personal Information" (Profile Details, Update Profile, Membership ID, Change Password, Contact Us). The main content area features a table titled "Our Services" showing a list of bought shares. The table has columns: ORDER DATE, SYMBOL, QUANTITY, PRICE, MARKET PRICE, TOTAL COST, TOTAL MARKET COST, PROFIT/LOSS, and SELL. The data in the table is as follows:

ORDER DATE	SYMBOL	QUANTITY	PRICE	MARKET PRICE	TOTAL COST	TOTAL MARKET COST	PROFIT/LOSS	SELL
11/3/2015 12:10:59 PM	HFWA	4	18.64	19.67	74.56	78.68	4.12	Sell
10/26/2015 1:23:24 AM	INFY	2	18.39	17.490	36.78	34.98	-1.80	Sell
10/26/2015 1:23:14 AM	LAKE	2	14.95	12.80	29.9	25.6	-4.30	Sell
11/3/2015 12:31:52 PM	LAKE	2	12.7	12.80	25.4	25.6	0.20	Sell
10/26/2015 1:22:35 AM	NATI	2	28.65	30.10	57.3	60.2	2.90	Sell
11/3/2015								

Below the table, there are three small text snippets: "Total Cost (When User Bought) : 436.11", "Total Market Price (Current) : 455.89", and "Profit/Loss : 19.78". The status bar at the bottom of the screen shows "Copyright © 2008 Trade Monitoring @ trademonitoring.somee.com" and the date/time "IN 11/11/2015".

4. Sell Shares: User can sell the shares by clicking the sell button in portfolio page. User can see the shares how much quantity user want to sell.

If user forgot his password and requests recovery password will sent the email.

SELL SHARES HERE	
Symbol	HFWA
Quantity	4
Market Price	19.67
Sell Quantity	2

[Sell](#)

5. Email notifications on buy shares, sell shares and failed shares and on hold shares.

Compose

Inbox (40)

Starred

Important

Sent Mail

More labels

yagantiashok@gmail.com to me 12:17 PM (6 minutes ago)

You have Placed the order of: 3 Shares on : 11/11/2015 12:17:54 PM from : GYRO and Order ID is : 90005. The Order is open till :11/12/2015 12:17:54 PM

Click here to Reply or Forward

2 GB (13%) of 15 GB used

[Manage](#) [Terms - Privacy](#)

Last account activity: 0 minutes ago [Details](#)

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https://mail.google.com/mail/u/0/#inbox/150f7c91194e9654 Apps G https://www.google.... Facebook - Log In o... BIHAR STATE FOOD ... oursurfing MapReduce Flow Ch... CRUD Operations in... MapReduce Pattern... 3.5 Chord P2P Syst...

Google Gmail ▾ COMPOSE

Inbox (39) Starred Important Sent Mail More labels ▾

yagantiaashok@gmail.com to me 12:22 PM (2 minutes ago)

You have Sold : 2 Shares of : HFWA on 11/11/2015 12:22:42 PM. Now you have :2 to Sell

Click here to Reply or Forward

2 GB (13%) of 15 GB used Manage Terms - Privacy Last account activity: 0 minutes ago Details

Yaganti Anusha Yaganti Ashok Yaganti danda naveen Hanumantha Rao hanumantharao ra

Ask me anything ENG 12:25 PM IN 11/11/2015

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https://mail.google.com/mail/u/0/#inbox/150d495332cb5b9c Apps G https://www.google.... Facebook - Log In o... BIHAR STATE FOOD ... oursurfing MapReduce Flow Ch... CRUD Operations in... MapReduce Pattern... 3.5 Chord P2P Syst...

Google Gmail ▾ COMPOSE

Inbox (39) Starred Important Sent Mail More labels ▾

yagantiaashok@gmail.com to me Nov 4 (7 days ago)

Your hold Shares order has been failed and details are : 2 Shares of : INFY on 11/4/2015 4:19:20 PM and Order ID is 90004

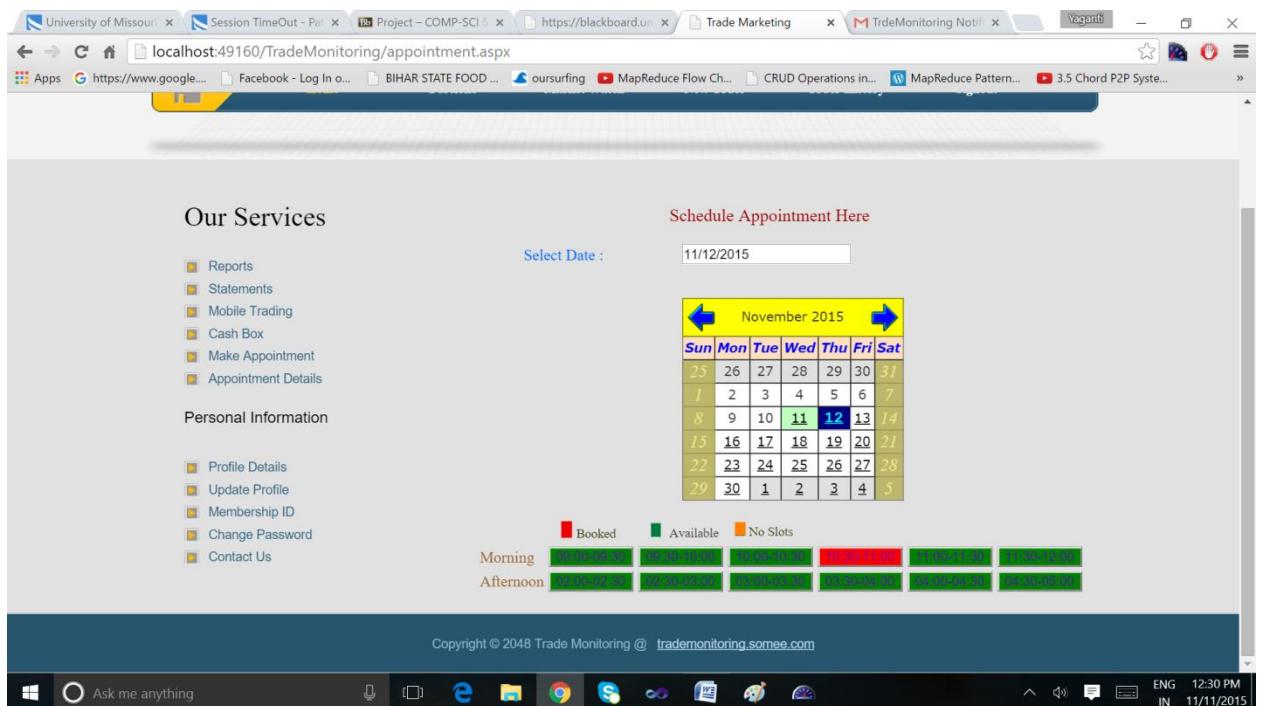
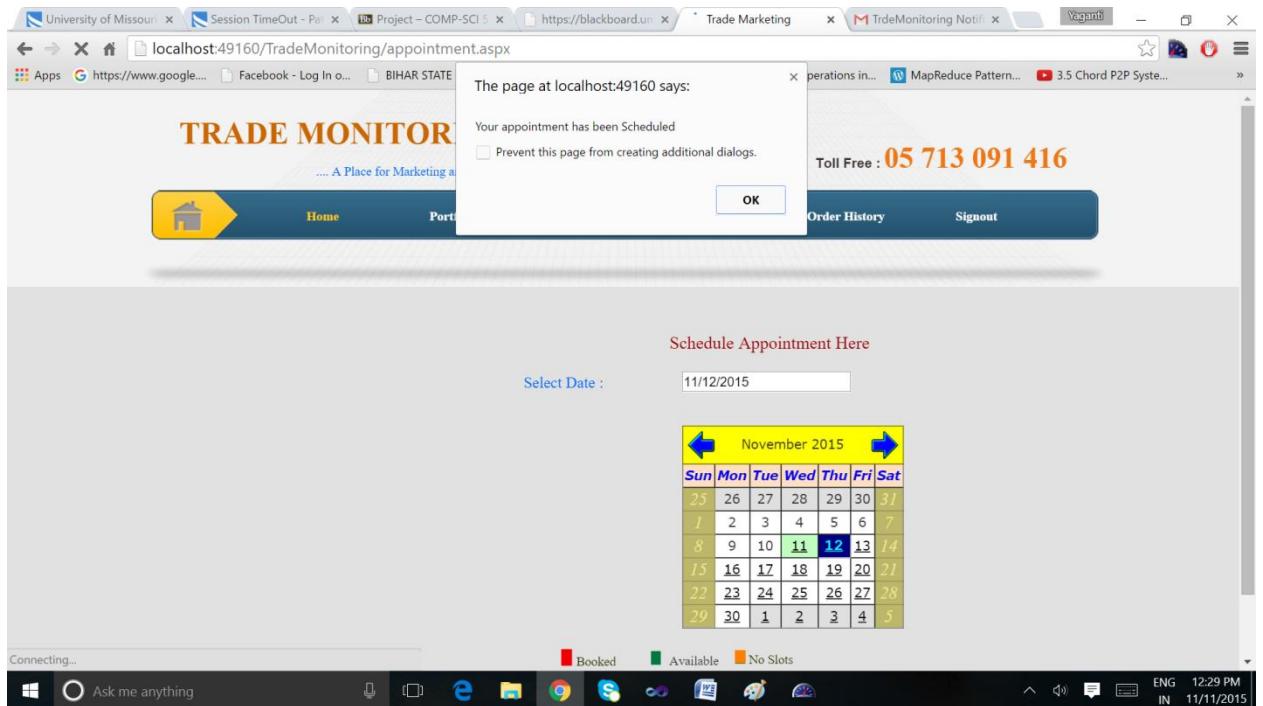
Click here to Reply or Forward

2 GB (13%) of 15 GB used Manage Terms - Privacy Last account activity: 1 minute ago Details

Yaganti Anusha Yaganti Ashok Yaganti danda naveen Hanumantha Rao hanumantharao ra

Ask me anything ENG 12:26 PM IN 11/11/2015

6. Schedule appointment: User can schedule the appointment to meet directly to resolve the issues.



7. Displaying the appointment details and cancel appointment:

The screenshot shows a web browser window with multiple tabs open. The active tab displays the 'TRADE MONITORING' application. The page has a header with the title 'TRADE MONITORING' and a toll-free number '05 713 091 416'. Below the header is a navigation menu with links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. A yellow arrow icon is on the left. The main content area is divided into two sections: 'Our Services' on the left and 'APPOINTMENT DETAILS' on the right. The 'Our Services' section contains a list of icons for Reports, Statements, Mobile Trading, Cash Box, Make Appointment, and Appointment Details. The 'APPOINTMENT DETAILS' section contains a grid table with columns for Appointment ID, Appointment Date, Appointment Time, and Cancel. The table data is as follows:

APPOINTMENT ID	APPOINTMENT DATE	APPOINTMENT TIME	CANCEL
504	11/12/2015	10:30-11:00	Cancel
502	11/18/2015	11:00-11:30	Cancel
500	11/19/2015	10:30-11:00	Cancel

At the bottom of the screen, the Windows taskbar is visible with various pinned icons and the system tray showing the date and time.

8. Exporting the Gridview data to the excel.

The screenshot shows a web browser window with multiple tabs open. The active tab displays the 'TRADE MONITORING' application. The page has a header with the title 'TRADE MONITORING' and a toll-free number '05 713 091 416'. Below the header is a navigation menu with links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. A yellow arrow icon is on the left. The main content area is divided into two sections: 'Our Services' on the left and 'Historical Stock Information' on the right. The 'Our Services' section contains a list of icons for What Is Trading?, How to Place order?, Trade History, Billing Details, Address & Timings, Gallery, and FAQ?. The 'Historical Stock Information' section contains a table for 'INFY' with columns for Symbol, Date, Open, High, Low, Close, Volume, and AdjClose. The table data is as follows:

Symbol	Date	Open	High	Low	Close	Volume	AdjClose
INFY	2015-11-10	17.459999	17.49	17.299999	17.459999	2484100	17.459999
INFY	2015-11-09	17.809999	17.90	17.40	17.66	4174900	17.66
INFY	2015-11-08	18.10	18.17	17.77	17.90	3423600	17.90
INFY	2015-11-05	18.07	18.18	18.059999	18.09	4262100	18.09
INFY	2015-11-04	18.34	18.35	18.139999	18.15	1926500	18.15
INFY	2015-11-03	18.190001	18.610001	17.959999	18.35	2939100	18.35
INFY	2015-11-02	18.08	18.35	17.91	18.26	2492100	18.26
INFY	2015-10-30	18.190001	18.200001	18.030001	18.16	1928500	18.16
INFY	2015-10-29	18.370001	18.469999	18.17	18.290001	2617500	18.290001
INFY	2015-10-28	18.48	18.719999	18.34	18.60	3413600	18.60
INFY	2015-10-27	18.50	18.620001	18.33	18.50	2221200	18.50
INFY	2015-10-26	18.49	18.629999	18.450001	18.50	2197800	18.50
INFY	2015-10-23	18.389999	18.66	18.25	18.620001	4274600	18.620001
INFY	2015-10-22	17.77	18.18	17.709999	18.16	2600900	18.16
INFY	2015-10-21	18.110001	18.120001	17.59	17.65	4361700	17.65
INFY	2015-10-20	18.110001	18.16	17.93	18.049999	7693800	18.049999

At the bottom of the screen, the Windows taskbar is visible with various pinned icons and the system tray showing the date and time.

TradeHistory (3) - Microsoft Excel																	
Symbol																	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	Symbol	Date	Open	High	Low	Close	Volume	AdjClose									
2	INFY	11/10/2015	17.459999	17.49	17.299999	17.459999	2484100	17.459999									
3	INFY	11/9/2015	17.809999	17.9	17.4	17.66	4174900	17.66									
4	INFY	11/6/2015	18.1	18.17	17.77	17.9	3423600	17.9									
5	INFY	11/5/2015	18.07	18.18	18.059999	18.09	4262100	18.09									
6	INFY	11/4/2015	18.34	18.35	18.139999	18.15	1926500	18.15									
7	INFY	11/3/2015	18.190001	18.610001	17.959999	18.35	2939100	18.35									
8	INFY	11/2/2015	18.08	18.35	17.91	18.26	2492100	18.26									
9	INFY	10/30/2015	18.190001	18.200001	18.030001	18.16	1928500	18.16									
10	INFY	10/29/2015	18.370001	18.469999	18.17	18.290001	2617500	18.290001									
11	INFY	10/28/2015	18.48	18.719999	18.34	18.6	3413600	18.6									
12	INFY	10/27/2015	18.5	18.620001	18.33	18.5	2221200	18.5									
13	INFY	10/26/2015	18.49	18.629999	18.450001	18.5	2197800	18.5									
14	INFY	10/23/2015	18.389999	18.66	18.25	18.620001	4274600	18.620001									
15	INFY	10/22/2015	17.77	18.18	17.709999	18.16	2600900	18.16									
16	INFY	10/21/2015	18.110001	18.120001	17.59	17.65	4361700	17.65									
17	INFY	10/20/2015	18.110001	18.16	17.93	18.049999	7693800	18.049999									
18	INFY	10/19/2015	18	18.07	17.82	17.92	3871700	17.92									
19	INFY	10/16/2015	17.5	18.07	17.389999	18.040001	6223000	18.040001									
20	INFY	10/15/2015	17.4	17.459999	17.26	17.450001	4388300	17.450001									
21	INFY	10/14/2015	17.690001	17.799999	17.32	17.4	6126000	17.245									
22	INFY	10/13/2015	17.780001	17.780001	17.24	17.530001	8200500	17.373843									
23	INFY	10/12/2015	18.68	19.030001	17.65	17.879999	13206900	17.720724									
24	INFY	10/9/2015	19.4	19.4	19.01	19.15	8046400	18.979411									

6.2. Client side implementation

For the client it is so important to have specific services he can does such as:

GET: clients should be able to get the information they require from the server side.

PUSH: clients should be able to upload information to server after updating it and retrieve it whenever they want.

Clients will deal with dynamic HTML pages with css scripting language to achieve that.

Implementation results :

1. Place Order page.

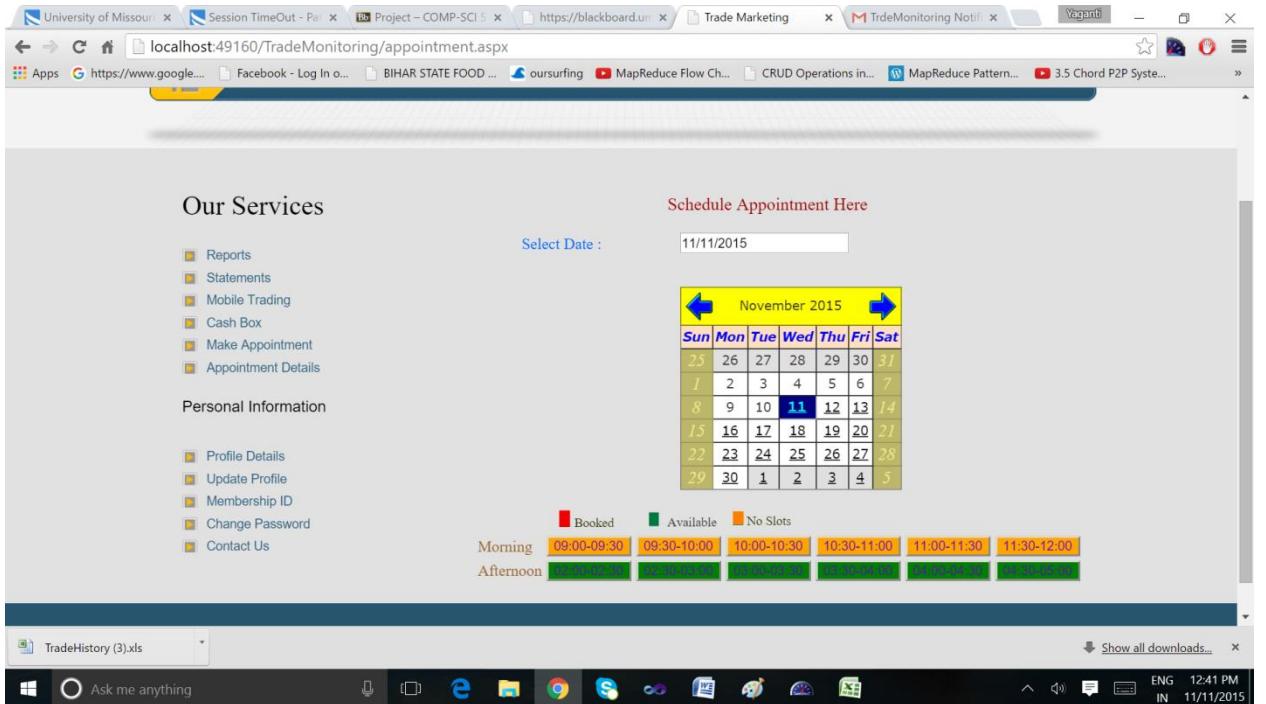
2. Change Password Page.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:49160/TradeMonitoring/ChangePassword.aspx'. The page has a header 'TRADE MONITORING' and a sub-header '.... A Place for Marketing and Innovation'. On the right, there is a toll-free number 'Toll Free : 05 713 091 416'. Below the header is a navigation bar with links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. A yellow arrow icon is on the left. The main content area is titled 'Our Services' and lists various services like Reports, Statements, Mobile Trading, etc. To the right, there is a form titled 'CHANGE PASSWORD HERE' with fields for Membership ID, Old Password, New Password, and Confirm Password, along with a 'Change Password' button. At the bottom, there is a 'Personal Information' section with options like Profile Details, Update Profile, Membership ID, and Change Password. The taskbar at the bottom shows various application icons and the date/time '11/11/2015 12:01 PM'.

3. Sell Shares Page :

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:49160/TradeMonitoring/SellStock.aspx'. The page has a header 'TRADE MONITORING' and a sub-header '.... A Place for Marketing and Innovation'. On the right, there is a toll-free number 'Toll Free : 05 713 091 416'. Below the header is a navigation bar with links for Home, Portfolio, Market Watch, New Order, Order History, and Signout. A yellow arrow icon is on the left. The main content area is titled 'Our Services' and lists various services like Reports, Statements, Mobile Trading, etc. To the right, there is a form titled 'SELL SHARES HERE' with fields for Symbol (HFWA), Quantity (2), Market Price (19.67), and Sell Quantity (an input field), along with a 'Sell' button. At the bottom, there is a 'Personal Information' section with options like Profile Details, Update Profile, and a download history list 'TradeHistory (3).xls'. The taskbar at the bottom shows various application icons and the date/time '11/11/2015 12:40 PM'.

4. Appointment.

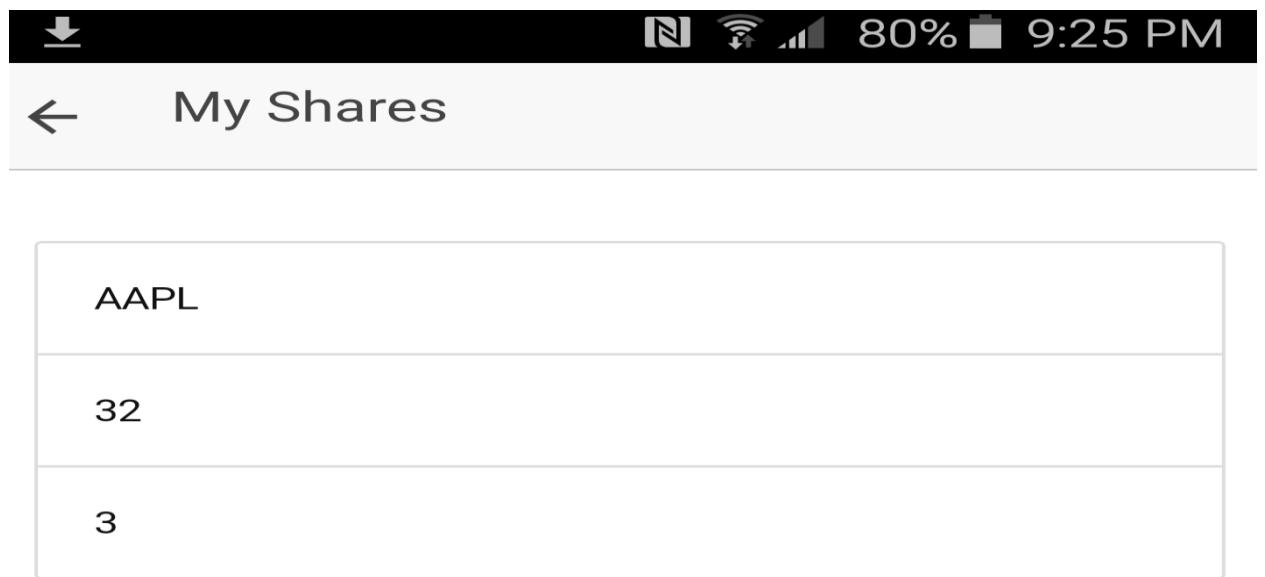


6.3. Android implementation

Android in-app services provide straightforward interface to manage transactions like get and push requests and responses.

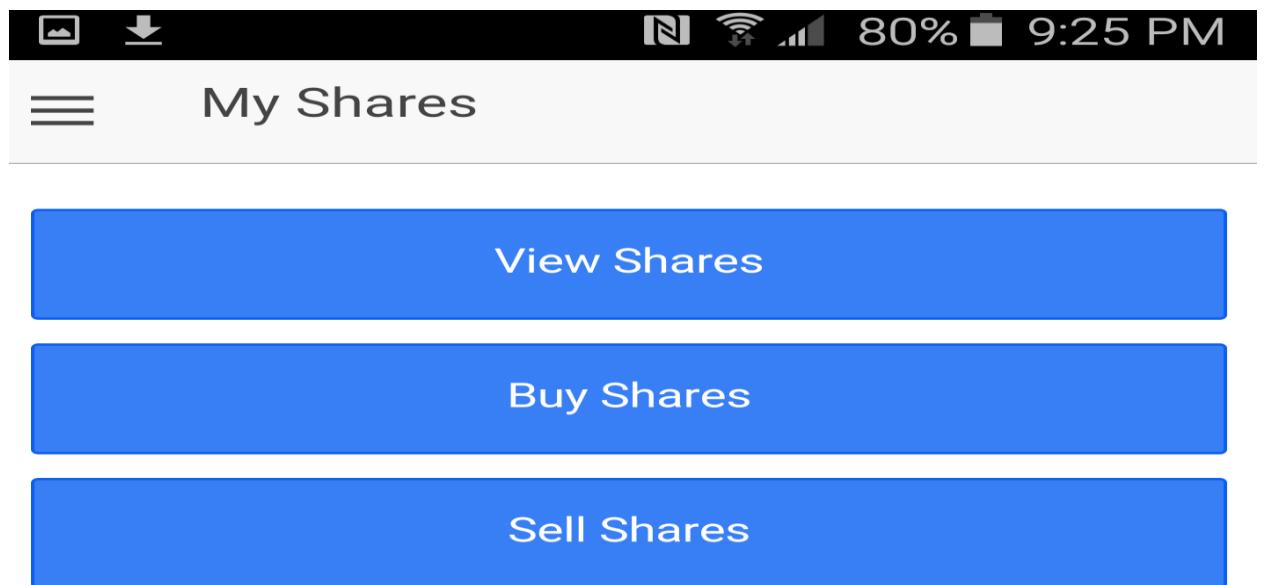
Implementation Results:

- Buy Shares:** Here user can buy the shares(Mobile app)

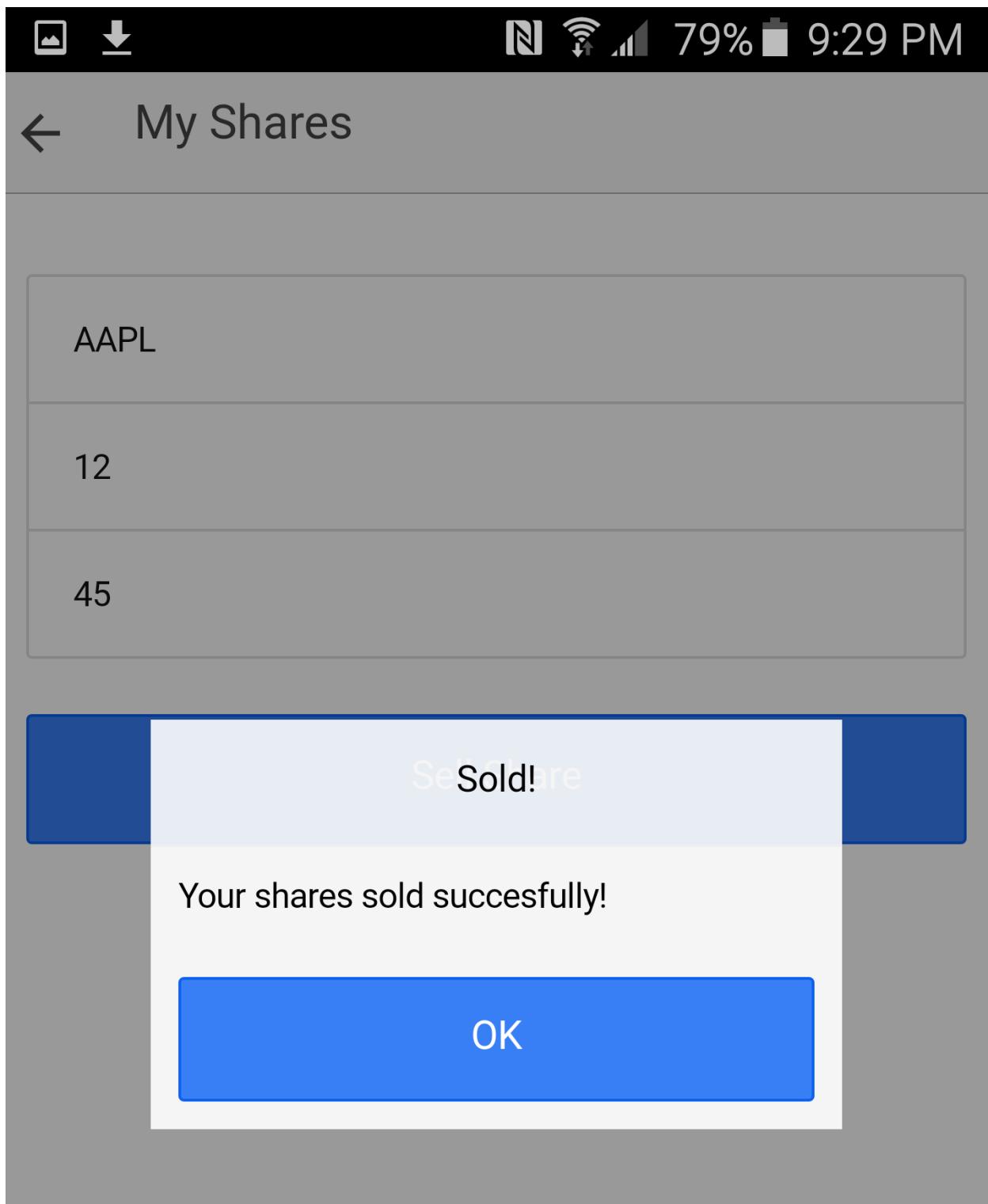


Buy Share

2. **My Stock:** User can navigate to Buy shares, Sell shares and view shares.



3. Sell shares : User can sell the shares here.



4. Current stock Information of different companies.



Market Data		Last trade: 3:00 PM	
Ask:	213K	Bid:	1.96K
Prev. Close:	201.75K	Open:	202K
Day's High:	202.83K	Day's Low:	201.38K
52w High:	229.37K	52w Low:	190.01K
Volume:	72.000	Avg. Volume:	303.000
Market Cap:	332.47B	EBITDA:	44.27B
P/E:	14.61x	EPS:	12.85K



Market Data		Last trade: 3:00 PM	
Ask:	25.090	Bid:	25.020
Prev. Close:	25.020	Open:	25.020
Day's High:	25.380	Day's Low:	24.760
52w High:	86.000	52w Low:	24.300
Volume:	3.53M	Avg. Volume:	10.38M
Market Cap:	3.45B	EBITDA:	294.29M

7. Deployment Summary

We have deployed our project in Somee Deployment server and Github. Please find the URL for the deployed project.

Website URL : www.trademonitoring.somee.com

WCF Service URL : <http://www.tradeservice.somee.com/Service1.svc>

GITHUB URL :https://github.com/AshokYaganti/ASE-Project/tree/master/ASE_Project

8. Reports.

We are following the Agile process model. So every Iteration we will receive the additional requirements and changes will be made from all the phases starting from requirements phase to deployment phase. So for the 3rd Iteration we have successfully completed during the period of 27-OCT-2015 to 11-Nov-2015.

Up to this Iteration we have completed the 75% of the project including all the phases in SDLC. During this phase we have redesigned UI, Implemented the backend functionality.

Implementation Results:

- Placing New Order :** Here user can buy the shares instantly with the current market value and can place the order for price range and time limit.

The screenshot shows a web browser window with the URL <http://localhost:49160/TradeMonitoring/NewOrder.aspx>. The page has a header with tabs: Home, Portfolio, Market Watch, New Order, Order History, and Signout. The 'New Order' tab is active. On the left, there are two sections: 'Our Services' (Reports, Statements, Mobile Trading, Cash Box, Make Appointment, Appointment Details) and 'Personal Information' (Profile Details, Update Profile, Membership ID, Change Password, Contact Us). The main right area is titled 'Place New Order'. It contains fields for Symbol (GYRO), Company Name (GYRODYNE COMPANY OF AMERICA IN), Current Market Price (26.74), Available Shares (66), Quantity (3), Order Type (Limit), Price (Price dropdown), From (55), To (60), Validity (Day dropdown), and a 'Place Order' button. The status bar at the bottom shows system information: ENG IN 12:16 PM 11/11/2015.

2. For placing the order with time limit user shares will be on hold and get order ID.

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:49160/TradeMonitoring/NewOrder.aspx'. A modal dialog box is displayed, stating 'The page at localhost:49160 says: Your Order ID is :90005' with an 'OK' button. Below the dialog, the main page displays a 'Place New Order' form. The form fields are as follows:

Symbol	GYRO
Company Name	GYRODYNE COMPANY OF AMERICA IN
Current Market Price	26.74
Available Shares	66
Quantity	3
Order Type	Limit
Price	From : 55 To : 60
Validity	Day

At the bottom right of the form is a 'Place Order' button. The browser's status bar at the bottom indicates 'Waiting for localhost...'.

3. Portfolio Page (Displays all the Bough shares with profit and loss details).

The screenshot shows a web browser window with multiple tabs open. The active tab is 'localhost:49160/TradeMonitoring/Portfolio.aspx'. The main content area displays a table titled 'Our Services' under the heading 'Personal Information'. The table lists various services with small icons next to them. Below the table is a section titled 'Personal Information' with a list of items:

- Profile Details
- Update Profile
- Membership ID
- Change Password
- Contact Us

On the right side of the screen, there is a large table showing a list of purchased shares. The table has the following columns:

ORDER DATE	SYMBOL	QUANTITY	PRICE	MARKET PRICE	TOTAL COST	TOTAL MARKET COST	PROFIT/LOSS	SELL
11/3/2015 12:10:59 PM	HFWA	4	18.64	19.67	74.56	78.68	4.12	<button>Sell</button>
10/26/2015 1:23:24 AM	INFY	2	18.39	17.490	36.78	34.98	-1.80	<button>Sell</button>
10/26/2015 1:23:14 AM	LAKE	2	14.95	12.80	29.9	25.6	-4.30	<button>Sell</button>
11/3/2015 12:31:52 PM	LAKE	2	12.7	12.80	25.4	25.6	0.20	<button>Sell</button>
10/26/2015 1:22:35 AM	NATI	2	28.65	30.10	57.3	60.2	2.90	<button>Sell</button>
11/3/2015								

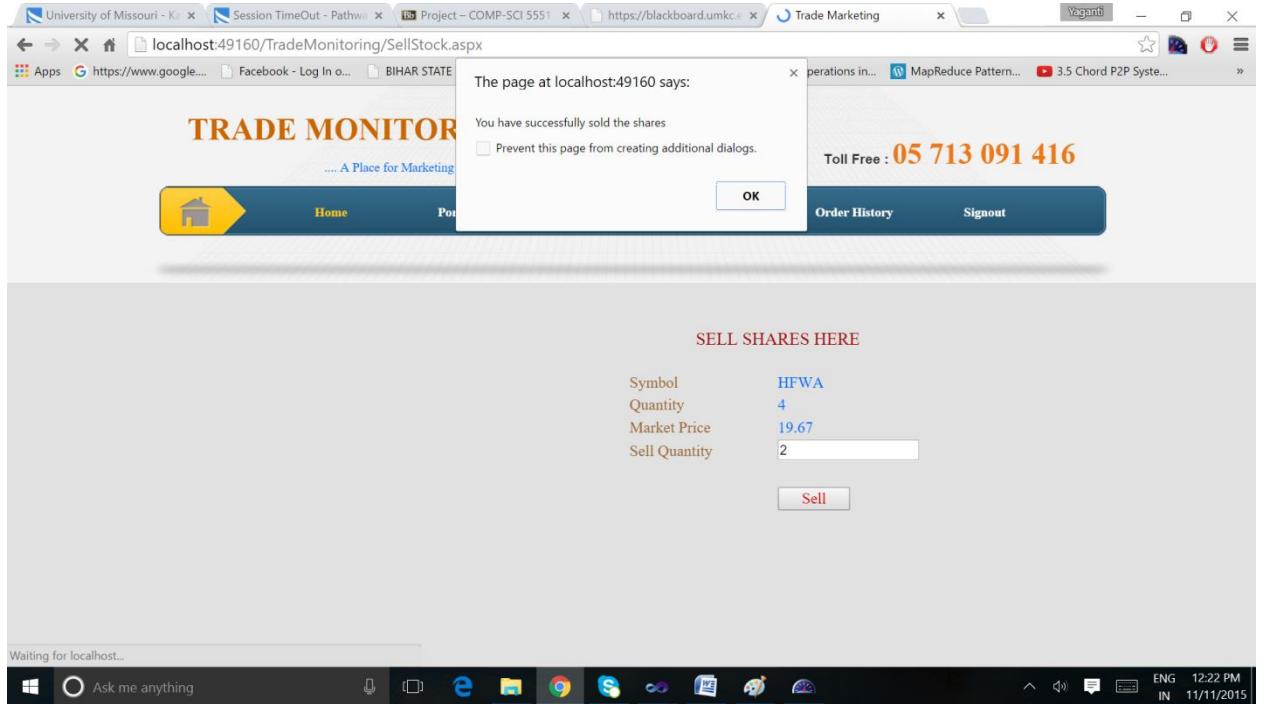
Below the table, there are three red text entries:

- Total Cost (When User Bought) : 436.11
- Total Market Price (Current) : 455.89
- Profit/Loss : 19.78

The browser's status bar at the bottom indicates 'Copyright © 2008 Trade Monitoring @ trademonitoring.somee.com' and the date/time '11/11/2015 12:20 PM'.

- 4. Sell Shares:** User can sell the shares by clicking the sell button in portfolio page. User can see the shares how much quantity user want to sell.

If user forgot his password and requests recovery password will sent the email.



- 5. Email notifications on buy shares, sell shares and failed shares and on hold shares.**

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https://mail.google.com/mail/u/0/#inbox/150f7c4af070688b

Apps G https://www.google.... Facebook - Log In o... BIHAR STATE FOOD... oursurfing MapReduce Flow Ch... CRUD Operations in... MapReduce Pattern... 3.5 Chord P2P Syst...

Google Gmail ▾

Compose

Inbox (40)

Starred

Important

Sent Mail

More labels ▾

Yaganti

Anusha Yaganti

Ashok Yaganti

danda naveen

Hanumantha Rao

hanumantharao ra

Click here to Reply or Forward

TrdeMonitoring Notification on Hold Shares

yagantiaashok@gmail.com to me 12:17 PM (6 minutes ago)

You have Placed the order of: 3 Shares on : 11/11/2015 12:17:54 PM from : GYRO and Order ID is : 90005. The Order is open till :11/12/2015 12:17:54 PM

2 GB (13% of 15 GB used) Manage Terms - Privacy Last account activity: 0 minutes ago Details

2 of 296

Ask me anything ENG 12:24 PM IN 11/11/2015

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https://mail.google.com/mail/u/0/#inbox/150f7c91194e9654

Apps G https://www.google.... Facebook - Log In o... BIHAR STATE FOOD... oursurfing MapReduce Flow Ch... CRUD Operations in... MapReduce Pattern... 3.5 Chord P2P Syst...

Google Gmail ▾

Compose

Inbox (39)

Starred

Important

Sent Mail

More labels ▾

Yaganti

Anusha Yaganti

Ashok Yaganti

danda naveen

Hanumantha Rao

hanumantharao ra

Click here to Reply or Forward

TrdeMonitoring Notification on Sold Shares

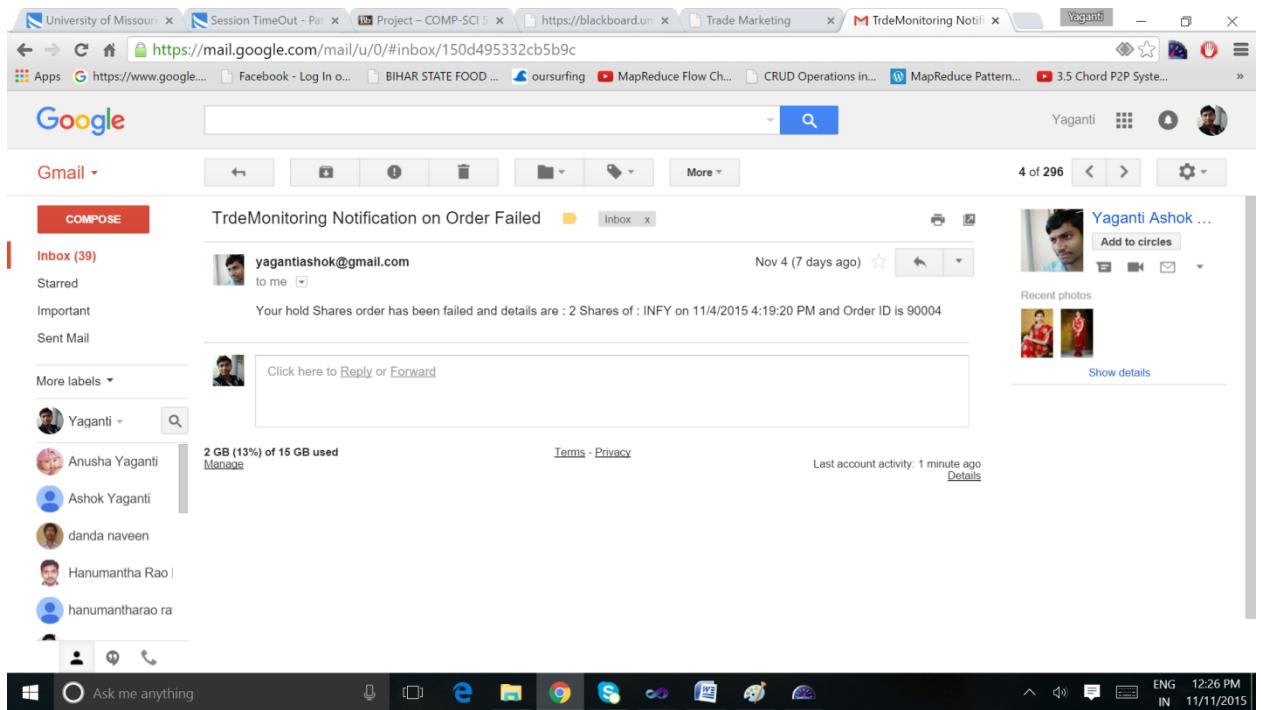
yagantiaashok@gmail.com to me 12:22 PM (2 minutes ago)

You have Sold : 2 Shares of : HFWA on 11/11/2015 12:22:42 PM. Now you have :2 to Sell

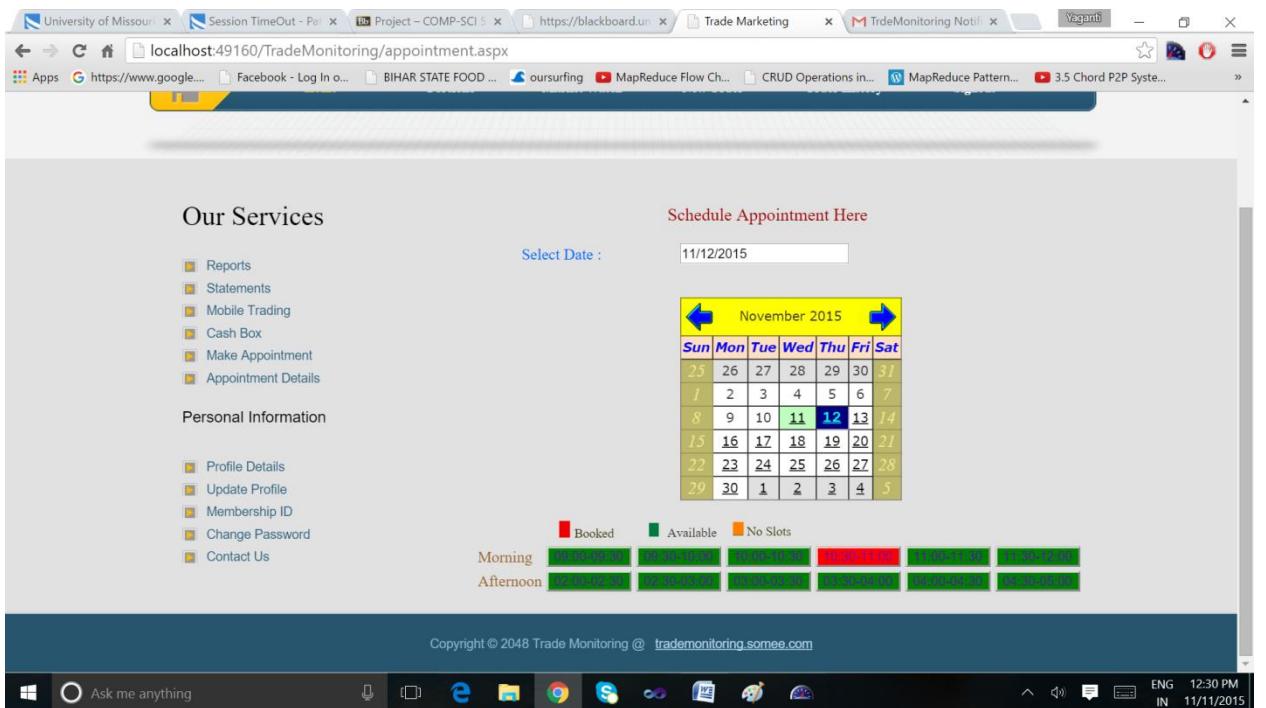
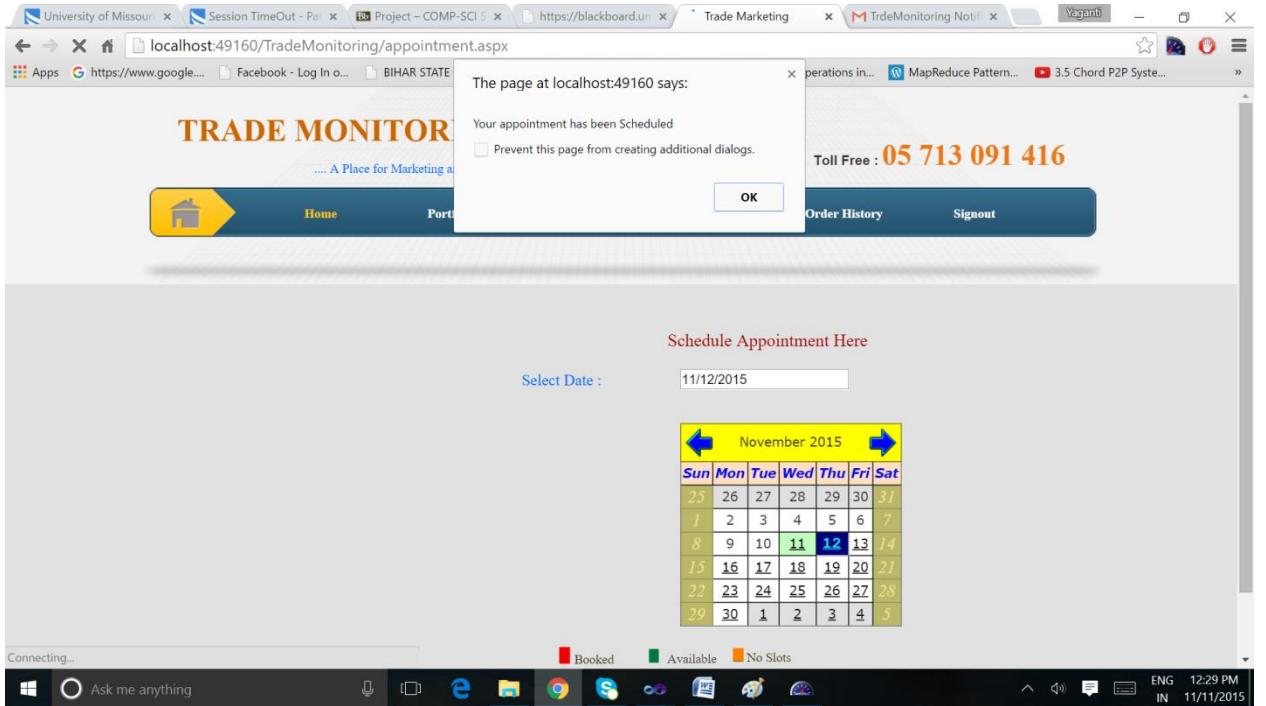
2 GB (13% of 15 GB used) Manage Terms - Privacy Last account activity: 0 minutes ago Details

1 of 296

Ask me anything ENG 12:25 PM IN 11/11/2015



6. Schedule appointment: User can schedule the appointment to meet directly to resolve the issues.



7. Displaying the appointment details and cancel appointment:

8. Exporting the Gridview data to the excel.

Symbol	Date	Open	High	Low	Close	Volume	AdjClose
INFY	2015-11-10	17.459999	17.49	17.299999	17.459999	2484100	17.459999
INFY	2015-11-09	17.809999	17.90	17.40	17.66	4174900	17.66
INFY	2015-11-06	18.10	18.17	17.77	17.90	3423600	17.90
INFY	2015-11-05	18.07	18.18	18.059999	18.09	4262100	18.09
INFY	2015-11-04	18.34	18.35	18.139999	18.15	1926500	18.15
INFY	2015-11-03	18.190001	18.610001	17.959999	18.35	2939100	18.35
INFY	2015-11-02	18.08	18.35	17.91	18.26	2492100	18.26
INFY	2015-10-30	18.190001	18.200001	18.030001	18.16	1928500	18.16
INFY	2015-10-29	18.370001	18.469999	18.17	18.290001	2617500	18.290001
INFY	2015-10-28	18.48	18.719999	18.34	18.60	3413600	18.60
INFY	2015-10-27	18.50	18.620001	18.33	18.50	2221200	18.50
INFY	2015-10-26	18.49	18.629999	18.450001	18.50	2197800	18.50
INFY	2015-10-23	18.389999	18.66	18.25	18.620001	4274600	18.620001
INFY	2015-10-22	17.77	18.18	17.709999	18.16	2600900	18.16
INFY	2015-10-21	18.110001	18.120001	17.59	17.65	4361700	17.65
INFY	2015-10-20	18.110001	18.16	17.93	18.049999	7693800	18.049999

TradeHistory (3) - Microsoft Excel

	A1	Symbol	Date	Open	High	Low	Close	Volume	AdjClose
1	Symbol	INFY	11/10/2015	17.459999	17.49	17.299999	17.459999	2484100	17.459999
2	INFY	11/9/2015	17.809999	17.9	17.4	17.66	4174900	17.66	
3	INFY	11/6/2015	18.1	18.17	17.77	17.9	3423600	17.9	
4	INFY	11/5/2015	18.07	18.18	18.059999	18.09	4262100	18.09	
5	INFY	11/4/2015	18.34	18.35	18.139999	18.15	1926500	18.15	
6	INFY	11/3/2015	18.190001	18.610001	17.959999	18.35	2939100	18.35	
7	INFY	11/2/2015	18.08	18.35	17.91	18.26	2492100	18.26	
8	INFY	10/30/2015	18.190001	18.200001	18.030001	18.16	1928500	18.16	
9	INFY	10/29/2015	18.370001	18.469999	18.17	18.290001	2617500	18.290001	
10	INFY	10/28/2015	18.48	18.719999	18.34	18.6	3413600	18.6	
11	INFY	10/27/2015	18.5	18.620001	18.33	18.5	2221200	18.5	
12	INFY	10/26/2015	18.49	18.629999	18.450001	18.5	2197800	18.5	
13	INFY	10/23/2015	18.389999	18.66	18.25	18.620001	4274600	18.620001	
14	INFY	10/22/2015	17.77	18.18	17.709999	18.16	2600900	18.16	
15	INFY	10/21/2015	18.110001	18.120001	17.59	17.65	4361700	17.65	
16	INFY	10/20/2015	18.110001	18.16	17.93	18.049999	7693800	18.049999	
17	INFY	10/19/2015	18	18.07	17.82	17.92	3871700	17.92	
18	INFY	10/16/2015	17.5	18.07	17.389999	18.040001	6223000	18.040001	
19	INFY	10/15/2015	17.4	17.459999	17.26	17.450001	4388300	17.450001	
20	INFY	10/14/2015	17.690001	17.799999	17.32	17.4	6126000	17.245	
21	INFY	10/13/2015	17.780001	17.780001	17.24	17.530001	8200500	17.373843	
22	INFY	10/12/2015	18.68	19.030001	17.65	17.879999	13206900	17.720724	
23	INFY	10/9/2015	19.4	19.4	19.01	19.15	8046400	18.979411	

Testing Results:

localhost:49160/TradeMonitoring/NewOrder.aspx

The page at localhost:49160 says:

Please select Company symbol

Prevent this page from creating additional dialogs.

OK **Order History** **Signout**

Place New Order

Symbol:

Company Name:

Current Market Price:

Available Shares:

Quantity:

Order Type:

Price:

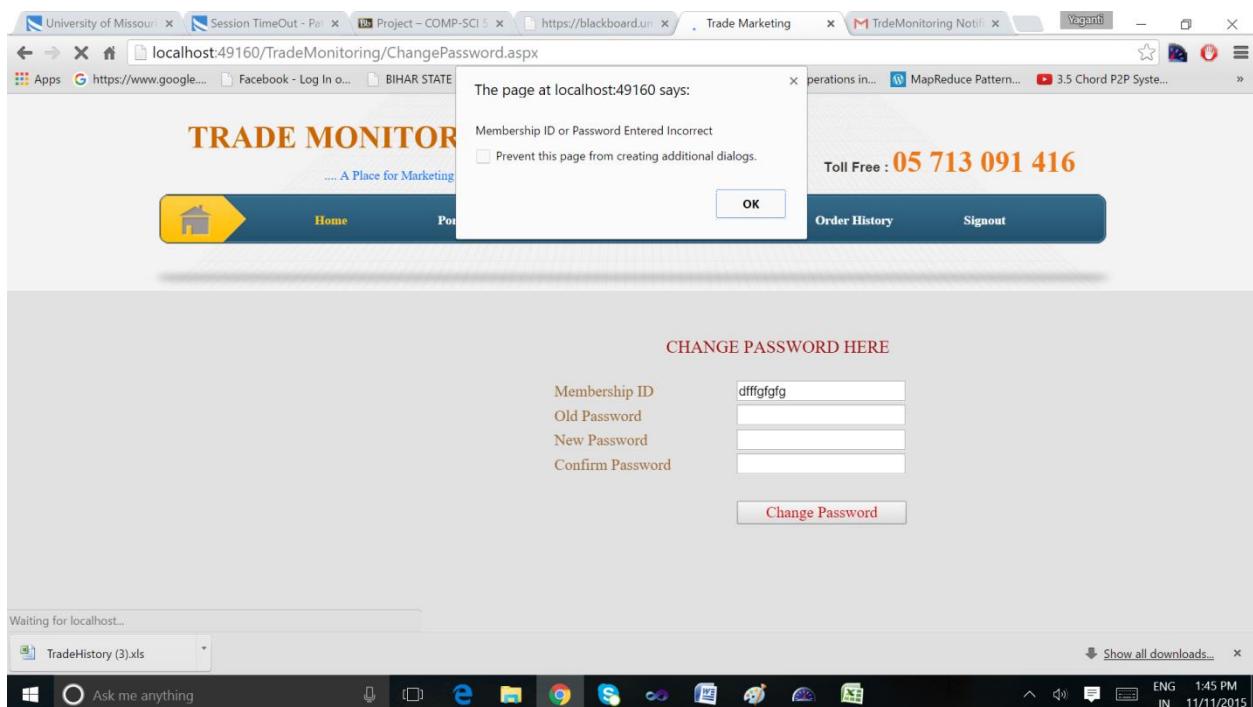
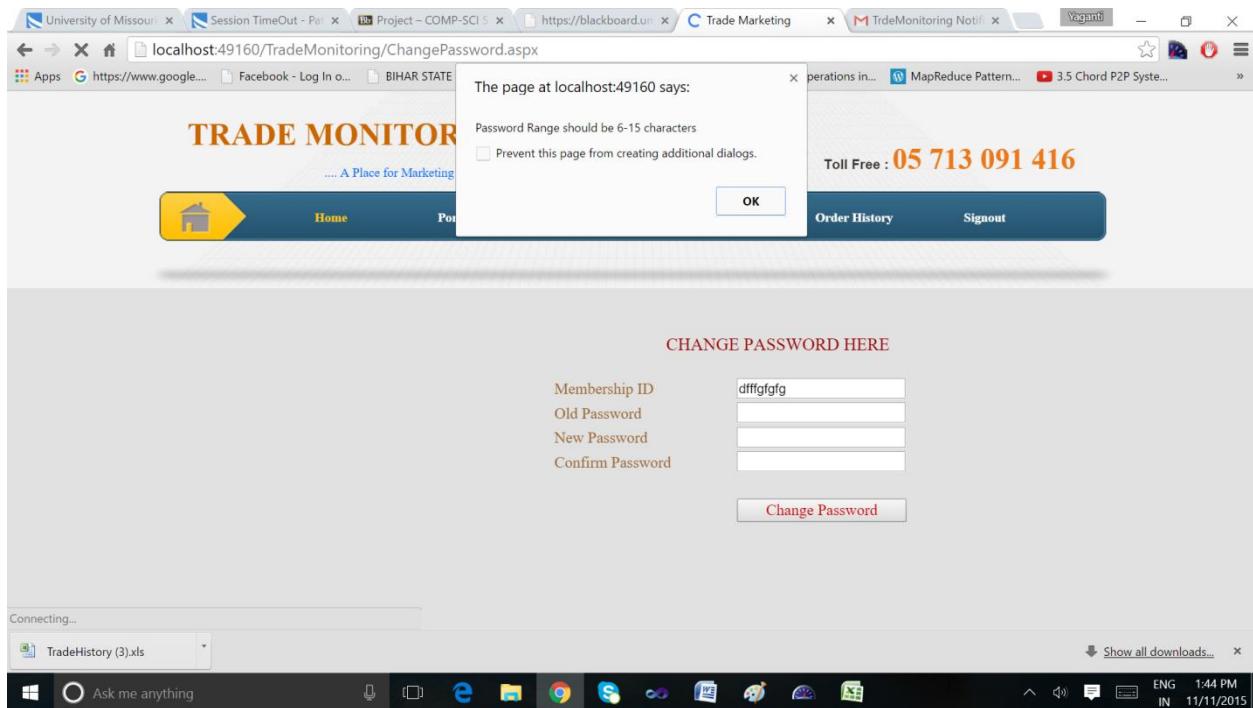
From : To :

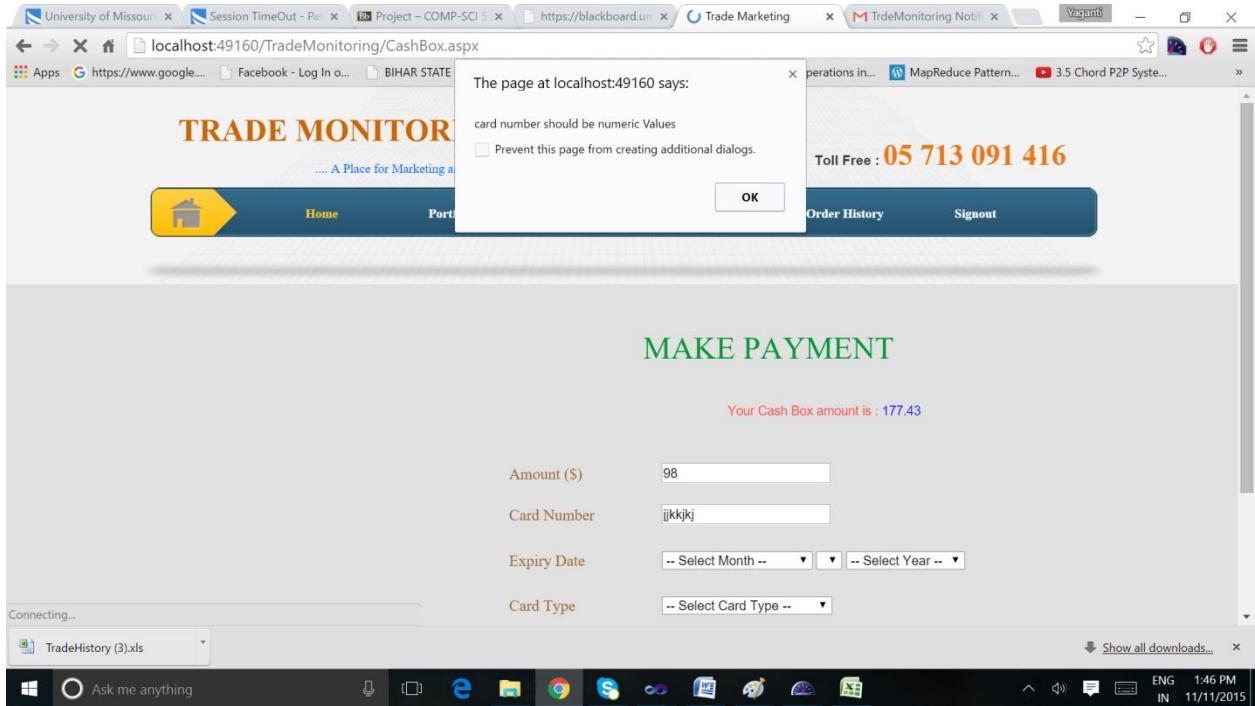
Validity:

Place Order

Waiting for localhost...

TradeHistory (3).xls Ask me anything ENG 1:09 PM IN 11/11/2015





9. Project Management

9.1 Work Completed

- Sell the shares under condition.
- Generating reports on order history
- Sending email notification to the user
- Displaying the user portfolio
- Appointment Booking.
- Cancel appointment
- Buy the shares under condition.
- Change user password.
- Exporting the GridView data to the Excel.

Work Assignment:

Ashok Yaganti :

- Buy the shares under condition.

- Appointment Booking.
- Cancel appointment

Yateeshwara Reddy Pulicharla :

- Sending email notification to the user
- Exporting the GridView data to the Excel.

Mohamed Gharibi :

- Displaying the user portfolio
- Sell the shares under condition.

Venkata Sasidhar Kanumuri

- Generating reports on order history
- Change user password.

1.2 Work to be completed in next phases

Work Assignment

Ashok Yaganti :

- Voice recognition

Sasidhar Kanumuri:

- Generating pictorial reports

Mohamed Gharibi :

- Generating Monthly statements.

Yatheesh Pulicharla:

- Deploying Mobile app.

10. Bibliography

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- “<https://jquery.com/>”
- “<http://api.jquery.com/jquery.ajax/>”