CSE 5324: SOFTWARE DEVELOPMENT PROJECT

Feedback: Android Application
Project Flow Document

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Revision History:

Date	Version	Description	Author
01/26/2014	1.0	Initial version of Document	All team members
02/02/2014	1.1	Revised version of document	All team members
02/24/2014	1.2	Iteration 1	All team members
03/24/2014	1.3	Iteration 2	All Team members
04/14/2014	1.4	Iteration 3	All Team members
04/28/2014	1.5	Final Deliverables	All Team members

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Introduction:

Abstract:

The application allows users to give the rating on certain aspects such as food, ambience, and service etc. for a restaurant. It also sends a notification to the manager once a user has submitted the rating ,if below the threshold i.e. if a user has given music a rating below a set threshold say 2 then it will send a sms to the manager which will help him/her track of the customer interests. The application also consist the link for webpage which displays data in tabular format. This page can be seen by anyone to get the average rating of the restaurant .For a user it is beneficial to see what is the best in the restaurant and for the manager it is useful to concentrate on the areas that has low ratings.

Flow of Project:

- User will enter the information like name, email, phone number, date of birth, location, and necessary information.
- Once the user has entered the feedback form will popup which will have the attributes like food, service, ambience, music etc. The user will give the feedback accordingly.
- Sends critique notification to the manager so that it helps him keep track of the customer interests whenever the rating is below the threshold.
- All the data will be stored on a database and will be displayed on a webpage

Flow Chart Diagrams:

Feedback Application:
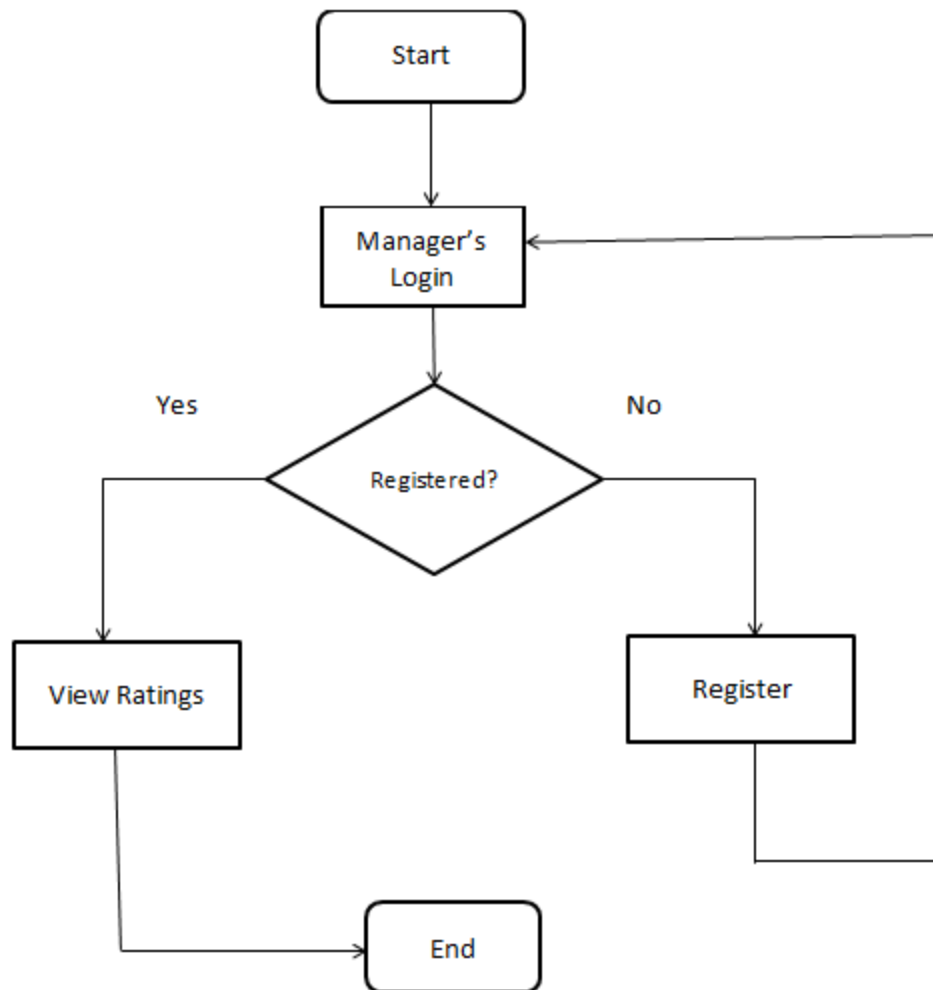
User Application:
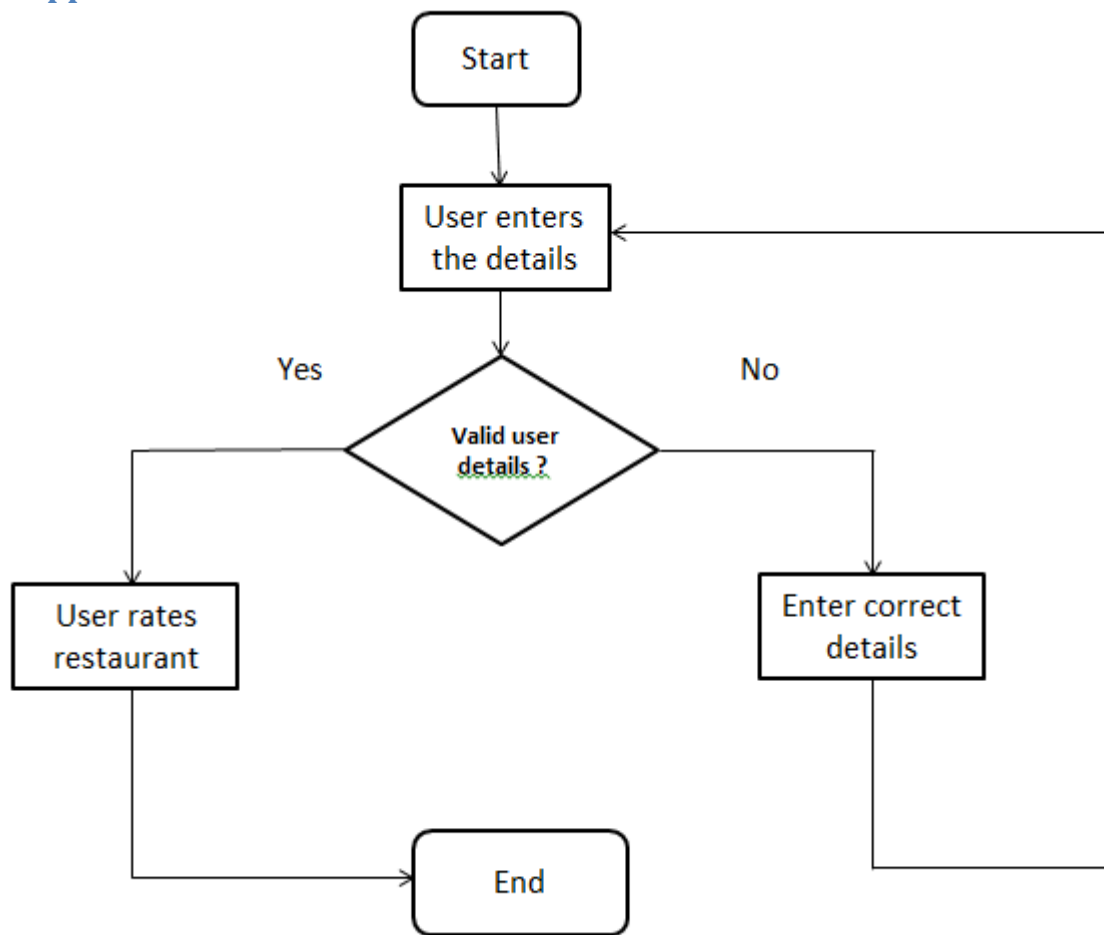
Use Case Diagrams:

Feedback App Use Case:

Admin Login Use Case:

Feedback Average Ratings Page Use Case:

Use Cases

Use Case 1: Admin Login

Actor: Admin	App: Feedback (Admin App)
Admin opens the App	The App shows the login screen

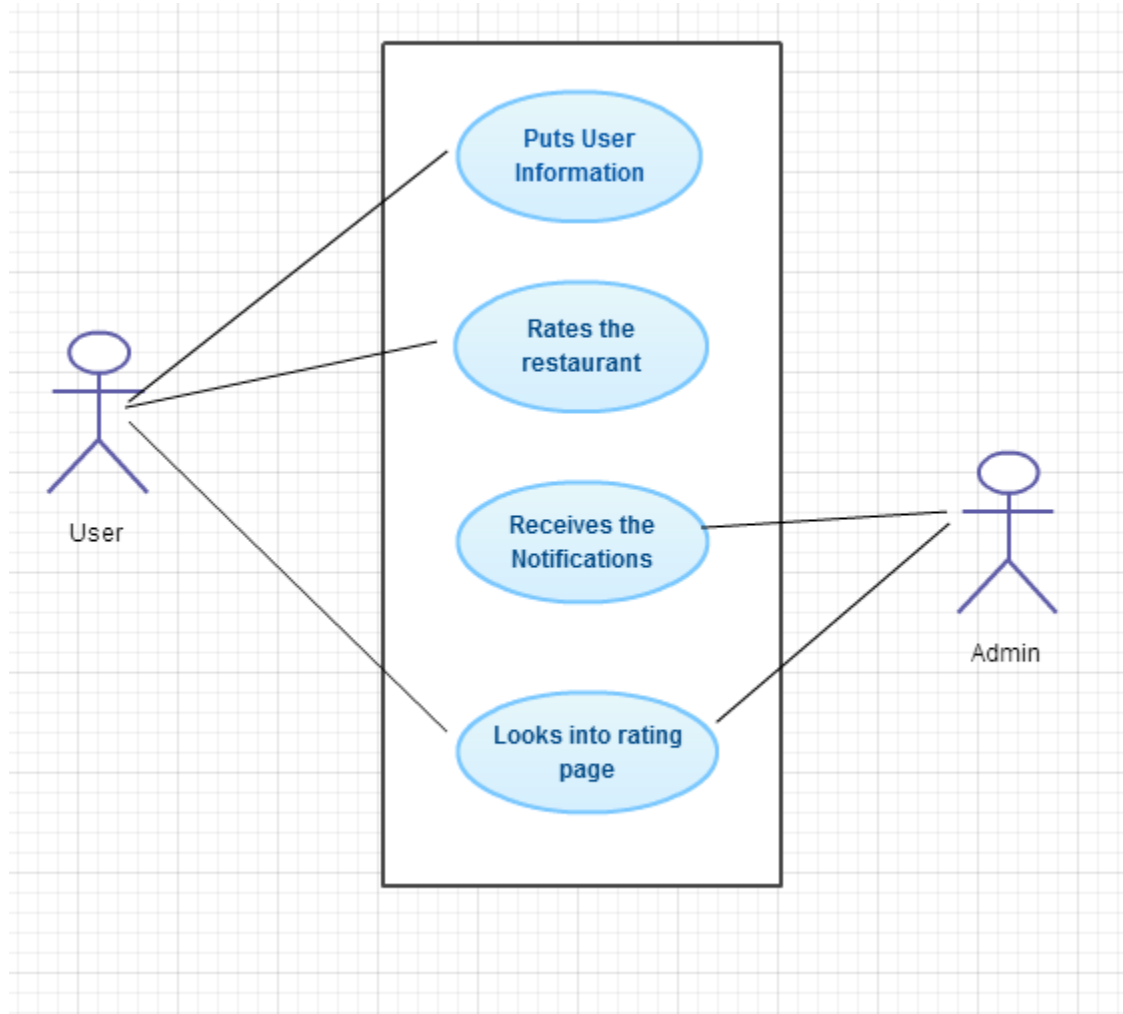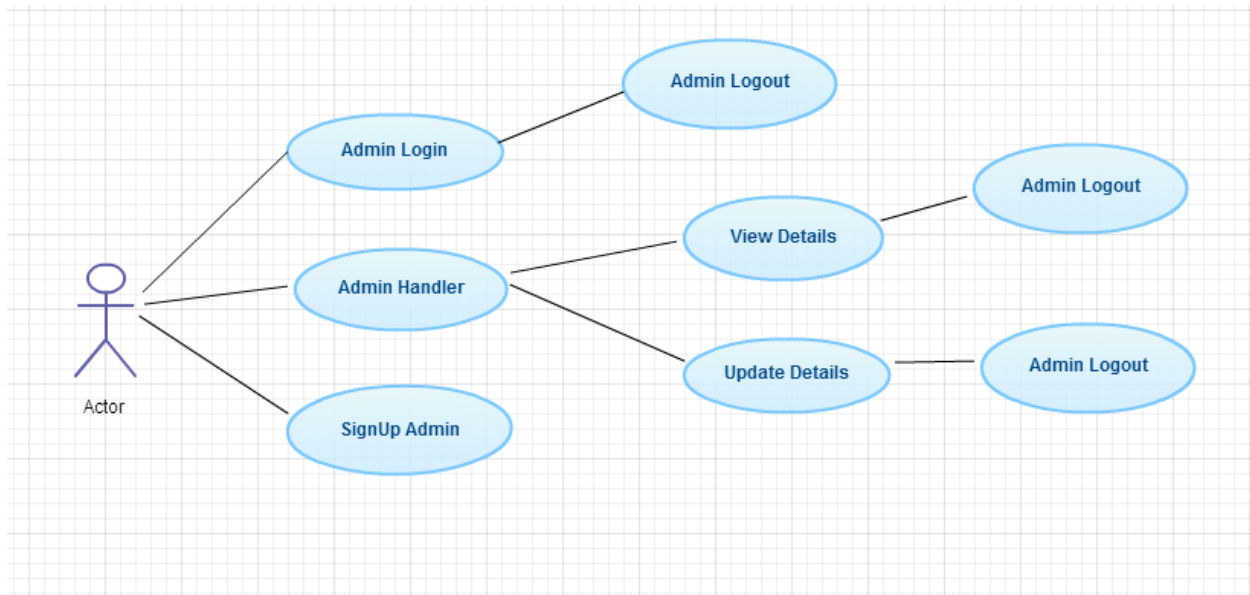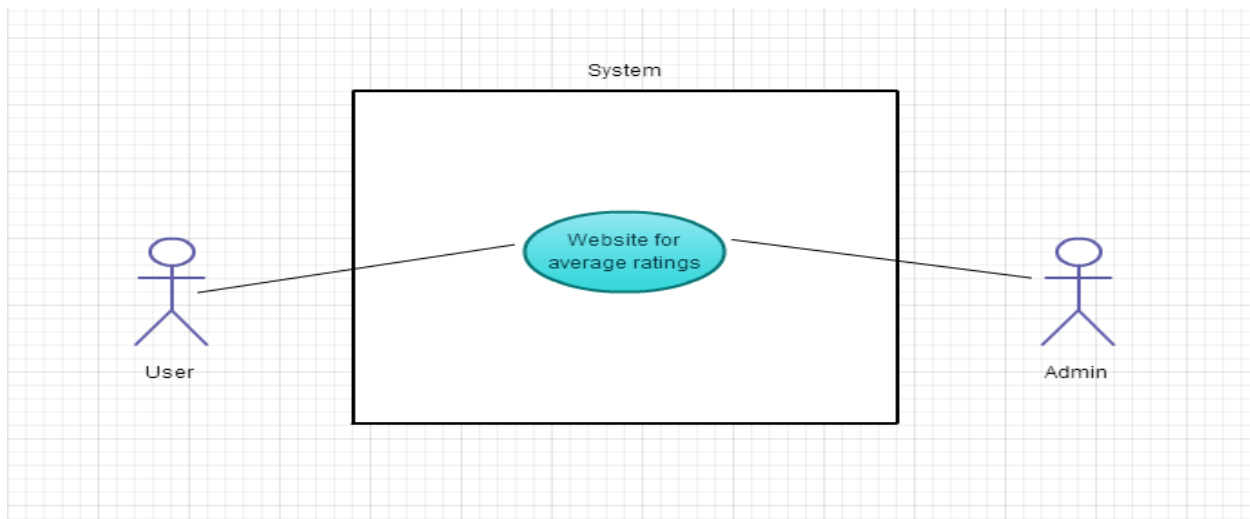| The admin enters the Username and Password Clicks Login.	The App logs in to Admin handler screen.
If Admin has no account, he can click on signup button.	The App opens the registration screen.

Extensions:

1. The invalid Username and Password were provided. App alerts the user about the invalid details.

Use case 2: Admin Handler

Actor: Admin	**App**: Feedback (Admin App)
The Admin can either view details or update details.	The App shows the view details and update details buttons
The Admin clicks on view details button	The App shows the details of the admin
The Admin clicks on update details button	The App shows the update details screen

Use case 2a: View details

Actor: Admin	**App**: Feedback (Admin App)
The Admin can see his details on the view details screen.	The App shows the details of the Admin

Use case 2b: Update details

Actor: Admin	**App**: Feedback (Admin App)
The Admin can update details such as phone number, email, and comments.	The App shows the hints for the details to be entered

Extensions:

1. The invalid details were provided. The App alerts the admin about the invalid details.
2. Validations were done on email, phone number.
3. Comments are mandatory.

Use case 3: Admin Signup

Actor: Admin	**App**: Feedback (Admin App)
The Admin sees the signup page and hints to be entered	The App shows the hints for the details to be entered
The Admin enters his details such as username, password, confirm password etc.	The App shows the details entered
The Admin clicks on signup button	The App signs up and takes admin to the login screen

Extensions:

1. The invalid details were provided. The App alerts the admin about the invalid details.
2. Validations were done on Username, email, phone number etc.

Use Case 4: Admin Logout

Actor: Admin	App: Feedback (Admin App)
The Admin clicks on the log out button	The App takes Admin to the login screen.

Use Case 5: User Information

Actor: User	App: Feedback (User App)
The User opens the App	The App shows the information screen
The User enters Name, Phone Number, email id and Date of Birth. Clicks Proceed	The App opens the ratings screen

Extensions:

1. The invalid name and email id are provided. The App alerts the user about the invalid details.

Use Case 6: User Ratings

Actor: User	App: Feedback (User App)
The user rates the Restaurant on following features Music, food, service and ambience.	The App shows the ratings provided.
The user also has the privilege to give comments.	The App shows the comments provided.

Extensions:

1. The User fails to give the ratings. The App alerts the User to give the ratings since it is mandatory. Comments are not mandatory.

Use Case 7: Web page for Average Ratings

Actor: User and Admin	App: Feedback (Webpage)
Both User and Admin can view the average ratings for the restaurant.	The App shows the average ratings.

Sequence Diagrams:

Admin Login:
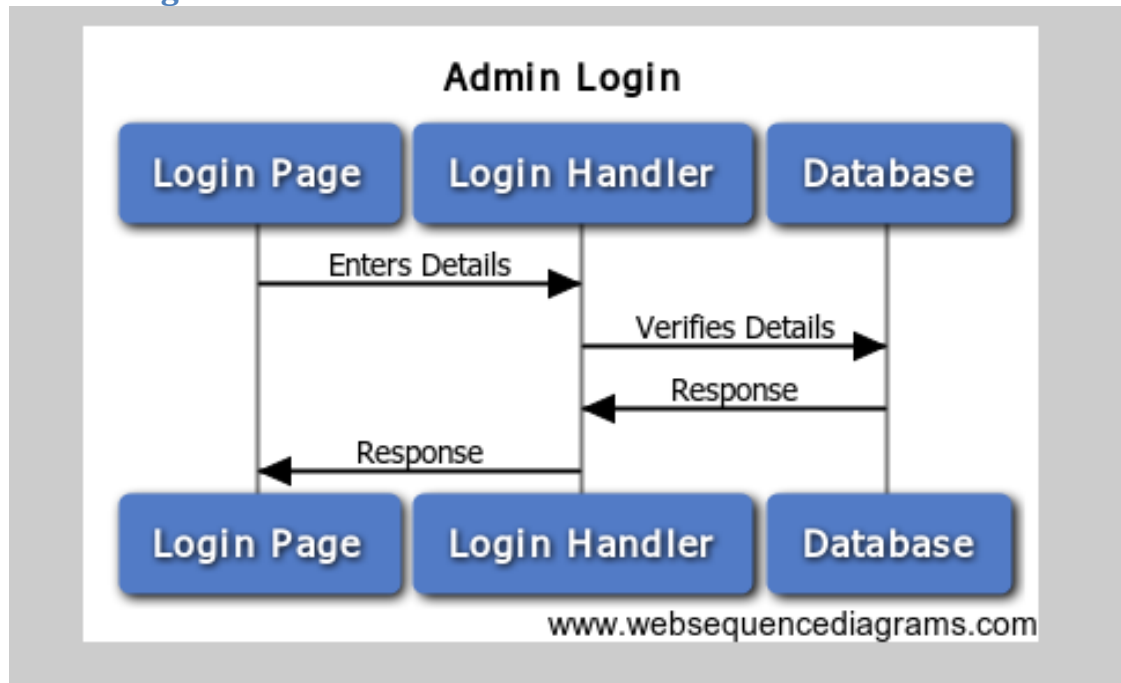
Admin Details:

Admin Update Details:
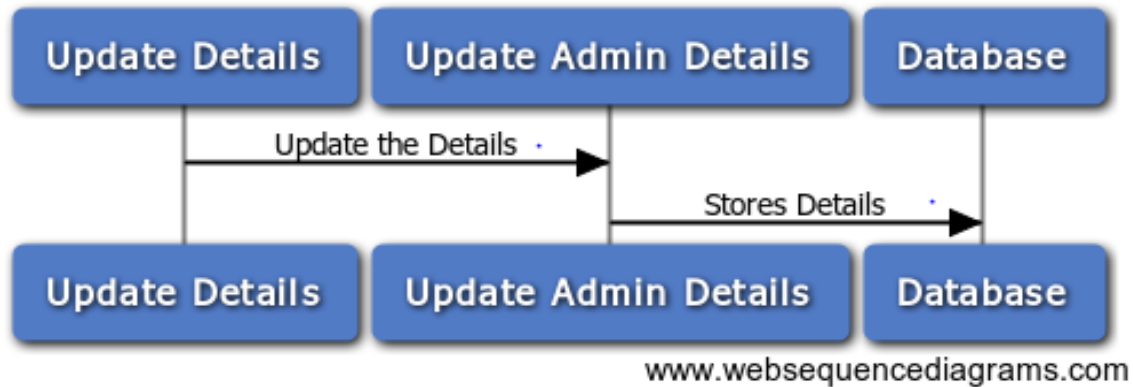
Signup Admin:

Admin Logout:

User Details:

User Details → User Handler: Enters details
User Handler → Database: Data Stored

www.websequencediagrams.com

Ratings Page:

Ratings Page → Ratings Handler: Gives Ratings
Ratings Handler → Database: Ratings Stored

www.websequencediagrams.com

Webpage for average Ratings:

View Average Ratings → Displays Average Ratings: Displays Ratings

www.websequencediagrams.com

Domain Model:


```
                                    ┌──────────┐
                                    │   Name   │
                                    ├──────────┤
                        1          │          │          1
                                    └──────────┘

                                    ┌──────────┐
                                    │ Email id │
                                    ├──────────┤          1..n
                        1..n       │          │
                                    └──────────┘

              ┌──────────┐          ┌──────────┐                        1
              │   USER   │   *      │ Phone no.│                    ┌──────────┐
              ├──────────┤   1      ├──────────┤  1..n        1     │  Admin   │
              │          │   0..n  │          │              1     ├──────────┤
              │          │   1      └──────────┘              1     │          │
              ├──────────┤   1                                1     │          │
              │          │   1      ┌──────────┐  1..n        1     │          │
              │          │   1..n  │  Rating  │                    └──────────┘
              └──────────┘   1..n  ├──────────┤
                  │                 │          │              1
                  │ *               └──────────┘
                  │ 1
              ┌──────────┐          ┌──────────┐  1..n
              │ Date of  │          │ Comments │
              │  Birth   │   1..n  ├──────────┤
              ├──────────┤          │          │
              │          │          └──────────┘
              └──────────┘
                              1     ┌──────────┐
                                    │ Webpage  │
                                    ├──────────┤   1
                                    │          │
                                    └──────────┘
```

Data Structures Used:

- Eclipse
- ADT(Android Development Tools)
- BitBucket
- MySQL
- Apache Tomcat
- Web Based Programing

Risks and Resolution:

RISKS	RESOLUTION
What if the admin doesn't enter the proper information about him/her?	Use proper validations on email and phone numbers.
What if Database Service/ Internet are down?	Notify the user about the downtime using toast messages.
What if the application crashes while using?	We have to keep the code clean and look for the proper memory management.
Device Compatibility.	Have to cater while writing the code to handle it for every device.
If the user in the feedback application provides wrong information	Proper validations for the name and date of birth while user puts in the information
If the user in the feedback application provides not the accurate rating about the restaurant.	Have to trust the user ratings as the final and accurate. Have to do the analysis of data what is the trend of the ratings given.

Iteration Plan:

Iteration1: Create Admin Application
- Create the database for the admin application.
- Create the login page for the admin application.
- Create the PHP script which will check for the authentication of the user.
- Create the register page for the manager.
- Create the PHP script which will put the information in the database.
- Create a page with view details and update details button.
- Create the update manager screen and the PHP script.
- Create all the supporting documents.

Iteration2: Create Feedback Application
- Create the database for the feedback application.
- Create the user info screen.
- Create the PHP script which will put the data into database.
- Create the rating page and the PHP script which will put the information into the database.
- Create the entire supporting database.

### Iteration3: Create the Webpage for the average rating
- Setup the proper environment for the web application development.
- Create the webpage where all the average rating for the restaurant will be displayed.
- Create all the supporting documents.

Final Deliverables:
- The issues raised by the review Team have been solved.
- Created a splash screen and a voice host.
- The webpage also contains the comments section, which displays the comments given by the user.
- Includes everything from the iteration1, iteration2 and iteration3 after thorough testing.

Feedback Project Plan Schedule:
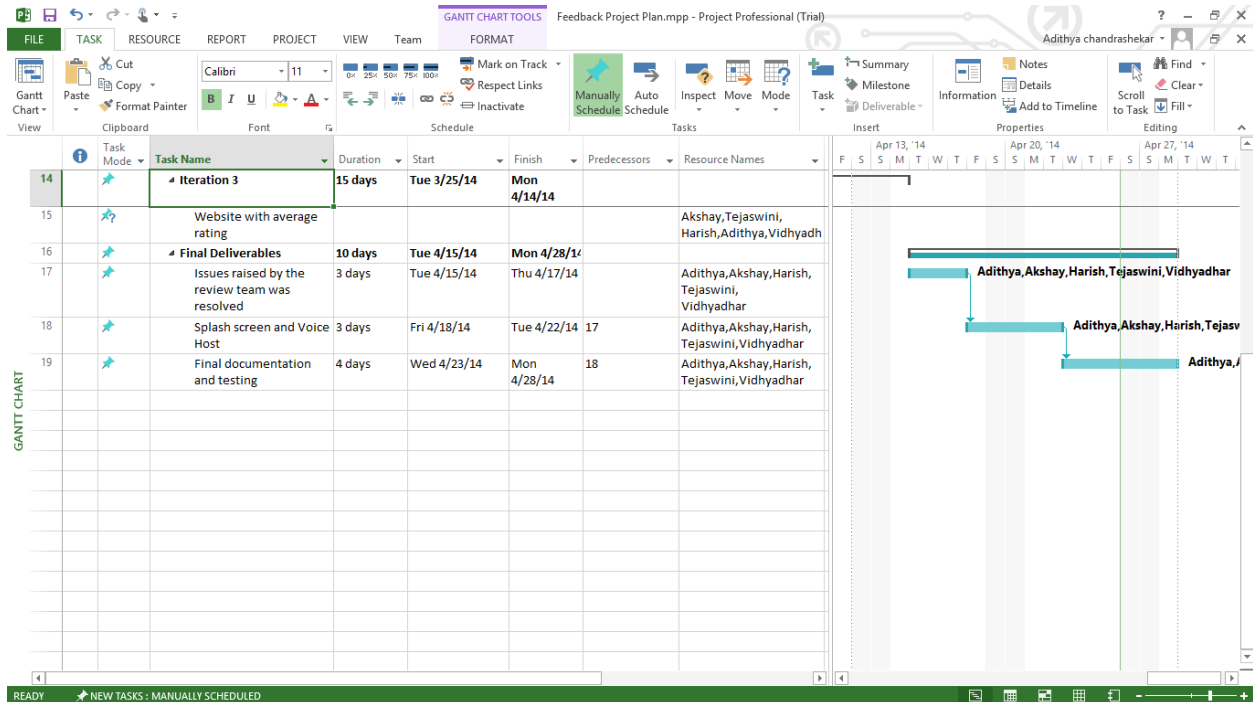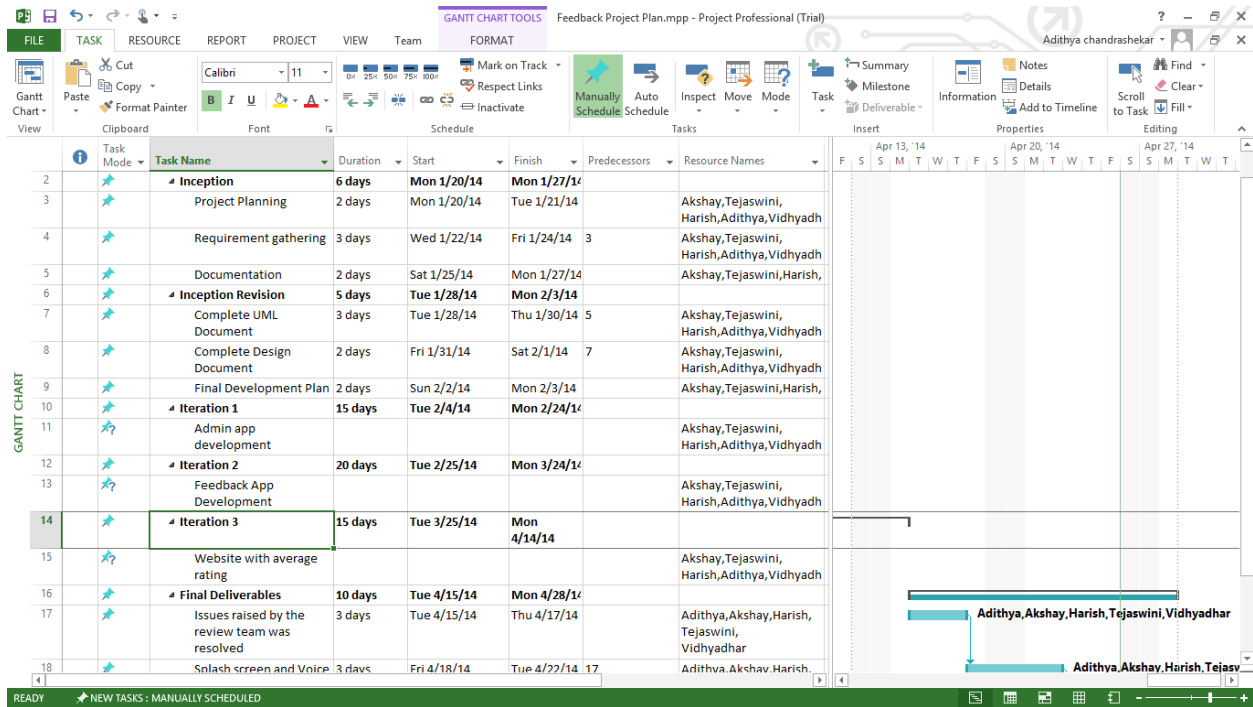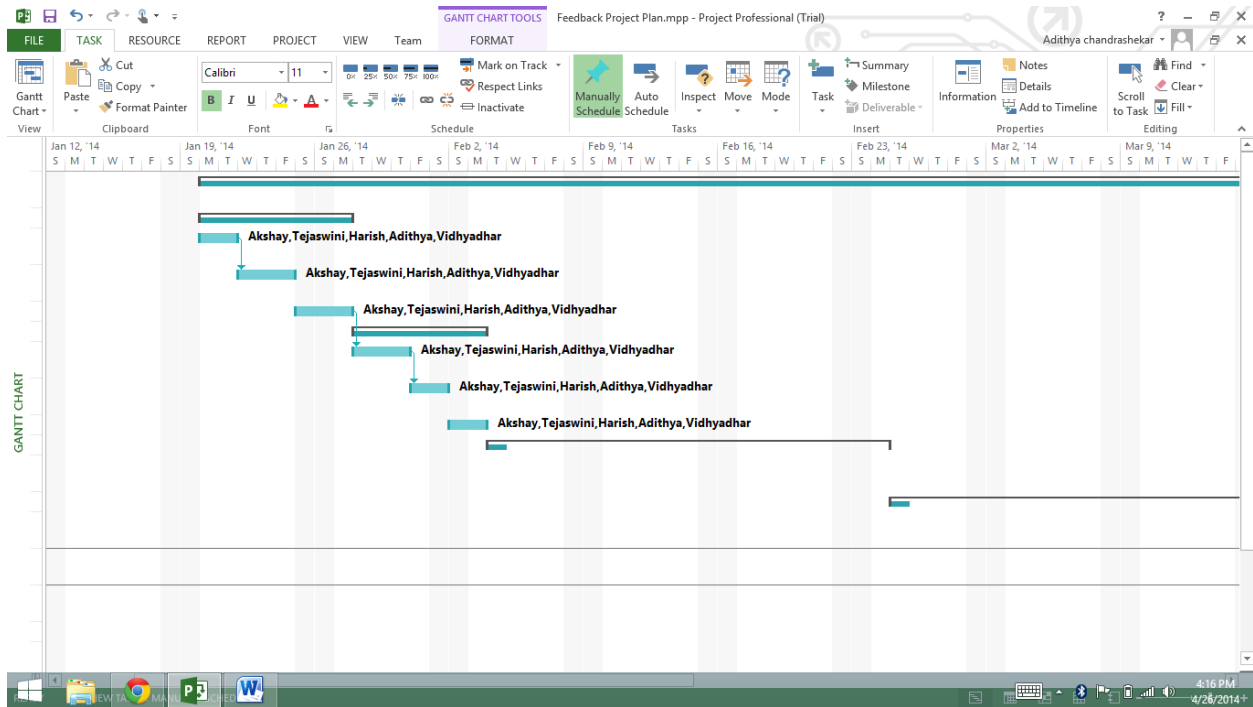
Top Competitors:

- Yelp
- Zomato

How we are different:

Our application is a different concept where the admin signs up and the user who visits the restaurant gives the rating on the particular attributes. The application which we look up to is mentioned above.

References:

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- http://findicons.com/
- http://stackoverflow.com/
- http://www.php.net/manual/en/
- https://creately.com/
- http://tableclothjs.com/
- http://jquery.com/
- http://getbootstrap.com/