

# CS 387 Project: Mess Data Analytics

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November 25, 2014

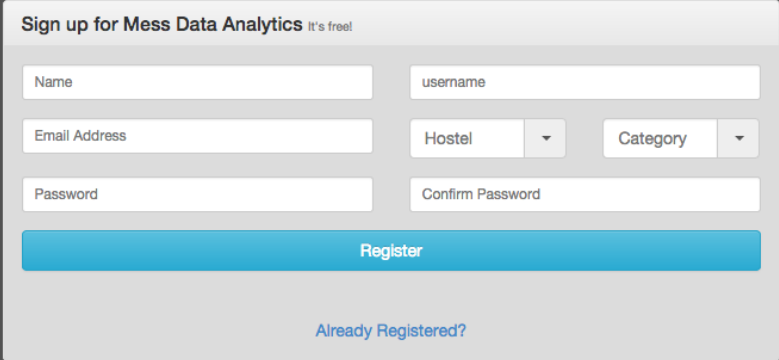
## 1 What we wanted to develop?

We wanted to develop a one stop place for the students of IIT Bombay who would use our website to obtain information regarding how well their mess is performing against messes of other hostels in real time and also actively provide feedback related for the food served in terms of numerical ratings as well as textual comments. Mess administrators can use this information to make changes to their mess timetable. The rating system would enable students to visit messes of other hostels who have very good ratings if they do not like the food being served in their mess on that day.

The main motive was to develop a website which provides simplicity and ease of access for the user.

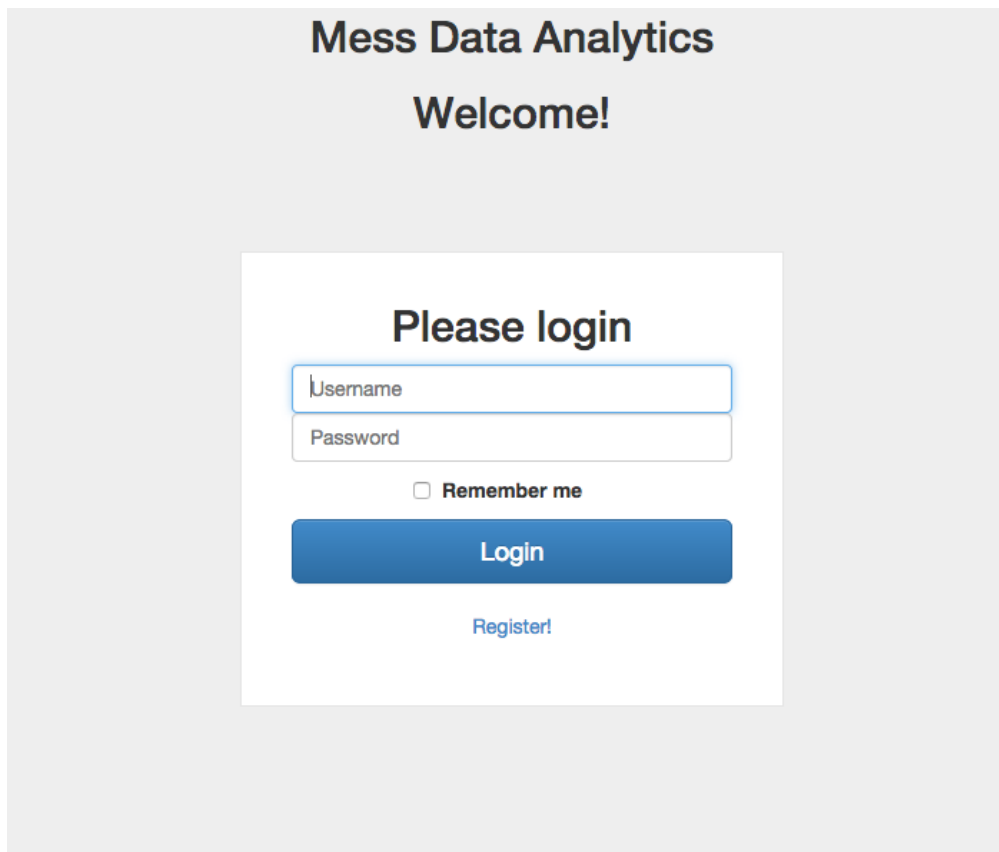
## 2 What has been implemented?

The students will first have to register on the website. After successful registration the student can login using his chosen username and password.



The image shows a registration form titled "Sign up for Mess Data Analytics" with the subtitle "It's free!". The form is divided into two columns. The left column contains three input fields: "Name", "Email Address", and "Password". The right column contains three input fields: "username", "Hostel" (a dropdown menu), and "Category" (a dropdown menu). Below these fields is a large blue "Register" button. At the bottom of the form, there is a link that says "Already Registered?".

Figure 1: Registration Page



The image shows a login page for 'Mess Data Analytics'. At the top, the text 'Mess Data Analytics' is displayed in a bold, dark font, followed by 'Welcome!' in a slightly smaller bold font. Below this, a white rectangular box contains the login form. Inside the box, the text 'Please login' is centered. There are two input fields: 'Username' and 'Password', both with light blue borders. Below the password field is a checkbox labeled 'Remember me'. A large blue button with the text 'Login' is positioned below the checkbox. At the bottom of the white box, there is a blue link that says 'Register!'.

Figure 2: Login Page

The navigation bar will have tabs for HOME, RATE,VIEW RATINGS, WEEKLY MENU and LOGOUT, which roughly outline the multitude of options available to the user to view as well as provide feedback for the mess food. The SET MENU option is additionally provided for Mess Administrators.

The homepage will display the current menu of the day. There is also an option to review the meal just served. Depending on the time of the day, the review button is set to the appropriate 'set ratings' option.

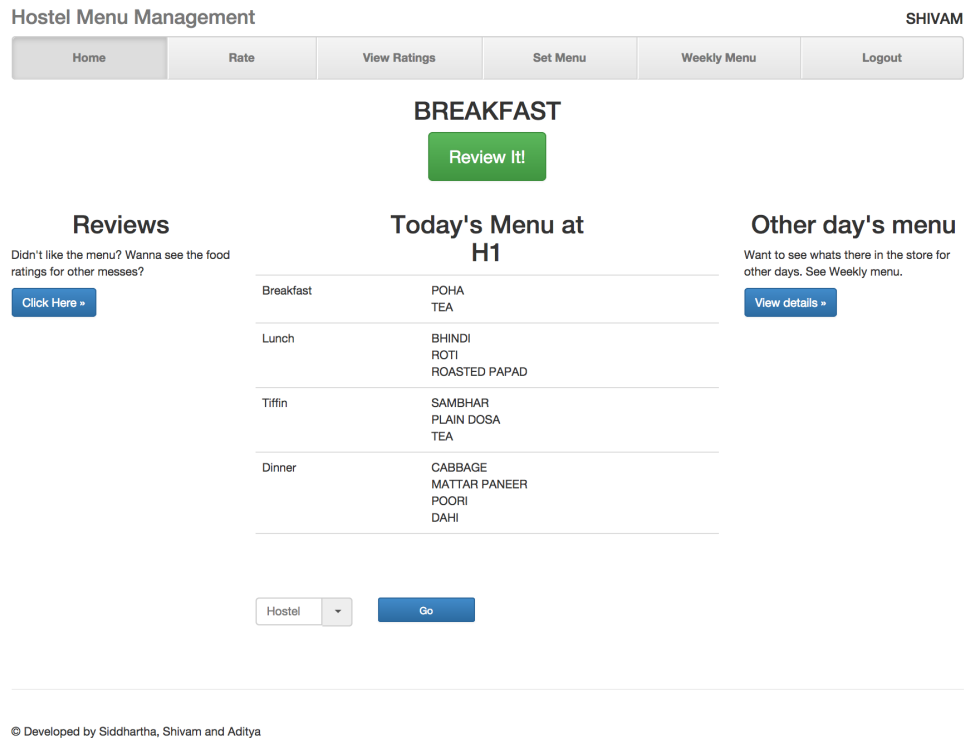


Figure 3: Homepage: Today's timetable in a selected hostel and a quick link to review the meal just served

## 2.1 RATE TAB

This tab enables the user to provide ratings for various meals of the day only for his hostel, for any day of the week. We have used two easy to use, drop down menu's one for choosing the day of the week and the other to choose the meal of the day. The various food items will accordingly be displayed allowing the user to comment as well as rate the food item. The average rating is updated in real-time.

Hostel Menu Management
SHIVAM GARG

Home
Rate
View Ratings
Weekly Menu
Logout

Give your Rating

Tuesday

Lunch

ID	Item Name	Average Rating	Your Rating	Comments
239	ROTI	4.0	Rate	Great Food!
238	BHINDI	4.0	Rate	Loved it!
240	ROASTED PAPAD	2.0	Rate	Comment

Submit Your Rating

Figure 4: Ratings Page: Rate and comment on any food item served on any particular day

## 2.2 VIEW RATINGS

This page has a tab structure consisting of 2 tabs.

- Hostel: Here the student can view the ratings of any particular day by using the date picker and a also hostel number of which he wishes to see the rating of.

Hostel Menu Management
SHIVAM GARG

Home
Rate
View Ratings
Weekly Menu
Logout

View All Rating

Hostel

H-1

2014-11-26

Particular Food Item

	Average Ratings
BreakFast	2
IDLI	2.0
Lunch	4
RAJMA	4.0
Tiffin	1
POHA	1.0
Diner	2
ALOO-CURRY	2.0

Figure 5: Ratings for a particular hostel can be viewed by date

- Particular Food Item: Here the student can search for a particular food item using an auto-suggesting

search box. The user needs to specify the range of dates over which he is interested to see the performance of the food item and can also choose a hostel number or may choose all hostel's too.

The performance of the food item is displayed using a graph, which shows how the rating of the food item varies over the range of dates specified by the user. The average rating of the food item, as well as the number of votes is also specified. The comments if any, by other users are also displayed.

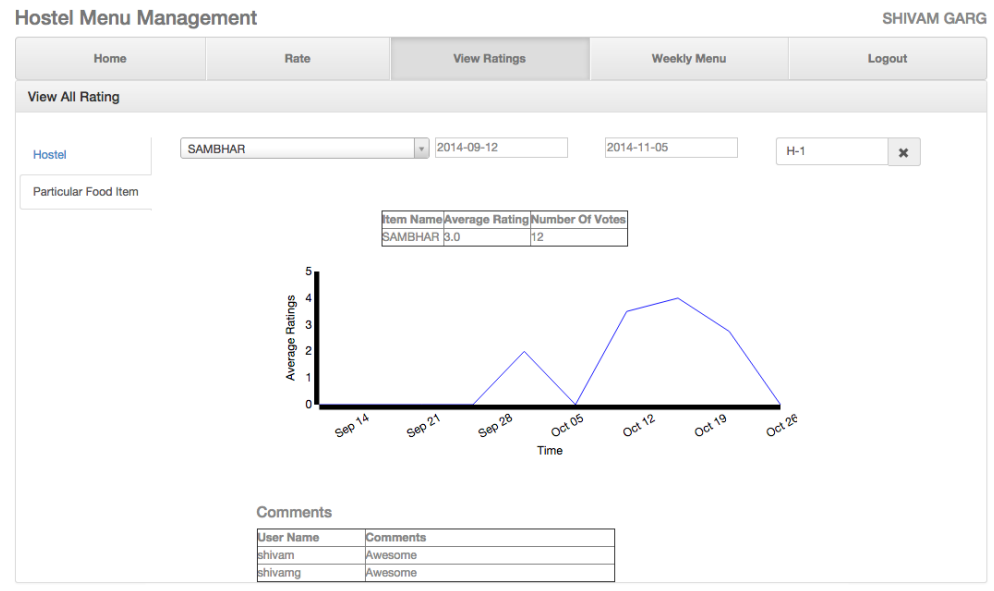


Figure 6: Ratings for a particular food item can be viewed for a range of dates and a selected hostel. A graph based on the avg. ratings for the period selected and a list of comments by various users is shown.

### 2.3 WEEKLY MENU

This page provides the user a very fluid interface to choose the week, over which mess menu is displayed. He can choose the week by using the window sliders or may choose a particular week using a date picker option.

Home	Rate	View Ratings	Set Menu	Weekly Menu	Logout
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Weekly Menu

■ NOV 14

DEC 14

JAN 15

FEB 15

MAR 15

APR 15

MAY 15

JUN 15

JUL 15

AUG 15

SEP 15

19  
WED

20  
THU

21  
FRI

22  
SAT

23  
SUN

24  
MON

25  
TUE

26  
WED

27  
THU

28  
FRI

29  
SAT

30  
SUN

1  
MON

2  
TUE

3  
WED

4  
THU

Date	Breakfast	Lunch	Tiffin	Dinner
25-11-2014	TEA POHA	ROTI BHINDI ROASTED PAPAD	TEA SAMBHAR PLAIN DOSA	DAHI CABBAGE MATTAR PANEER POORI
26-11-2014	IDLI PLAIN DOSA	POORI RAJMA	DAHI POHA	ROTI ALOO-CURRY
27-11-2014	PLAIN DOSA SAMBHAR	RASNA RAJMA BHINDI ROTI	PAV BHAJI	DAL MAKHANI POORI CABBAGE
28-11-2014	ONION DOSA SAMBHAR	ROTI ALOO-BEANS RAJMA	POHA	MATTAR PANEER POORI
29-11-2014	RAJMA CABBAGE	CHOLE	RAJMA	PLAIN DOSA
30-11-2014	POORI ALOO-CURRY	ROTI ROASTED PAPAD CABBAGE	PLAIN DOSA	DAL MAKHANI RASNA POORI CHICKEN CURRY
1-12-2014	SAMBHAR IDLI	ALOO-BEANS DAL MAKHANI POORI	TEA SAMOSA	SHAHI PANEER ROTI

Choose by week:

November 2014

Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

Choose by hostel:

Hostel

Figure 7: Displays menu for the week selected

## 2.4 SET MENU

This page is used to set menu for any day. It can be accessed only by users with administrator rights. It also shows the menu of that day (if set). If menu is not set, it gives a suggestion using menu of previous week. If the administrator feels the required item is not in the food item list, he can add it using the add items page.

Hostel Menu Management

SHIVAM

Home

Rate

View Ratings

Set Menu

Weekly Menu

Logout

Day

Today's menu at H1

Breakfast	TEA POHA
Lunch	ROASTED PAPAD BHINDI ROTI
Tiffin	SAMBHAR PLAIN DOSA TEA
Dinner	POORI MATTAR PANEER CABBAGE DAHI

Set today's menu

Breakfast

POHA

TEA

Lunch

BHINDI

ROTI

ROASTED PAPAD

Tiffin

SAMBHAR

PLAIN DOSA

TEA

Dinner

CABBAGE

MATTAR PANEER

POORI

DAHI

Repeat

This Week

✕

Submit

[Add Item](#)

Figure 8: Set Menu: Menu can be set by administrators for this week to next three weeks



You are not authorized to view this page. You shall be redirected in 5 seconds.

Figure 9: Only administartors have rights to set menu.

Add New Food Item!

CHICKEN65

POHA

MILK

CHOLA

Add More Items

× DINNER

× BREAKFAST

× TIFFIN

× BREAKFAST

× TIFFIN

× LUNCH

Remove

Remove

Remove

Add

Close

Figure 10: Add new items to list of available items for setting menu