

## Course Project

### Stage 3: Full Design Specification & Paper Prototype

#### SEMANTIC LEVEL DESIGN

This level of design specification deals with defining the meaning and desired function for each action in conceptual design, its respective parameters, feedback and its potential error conditions. This level for the backpacker application is as described below:

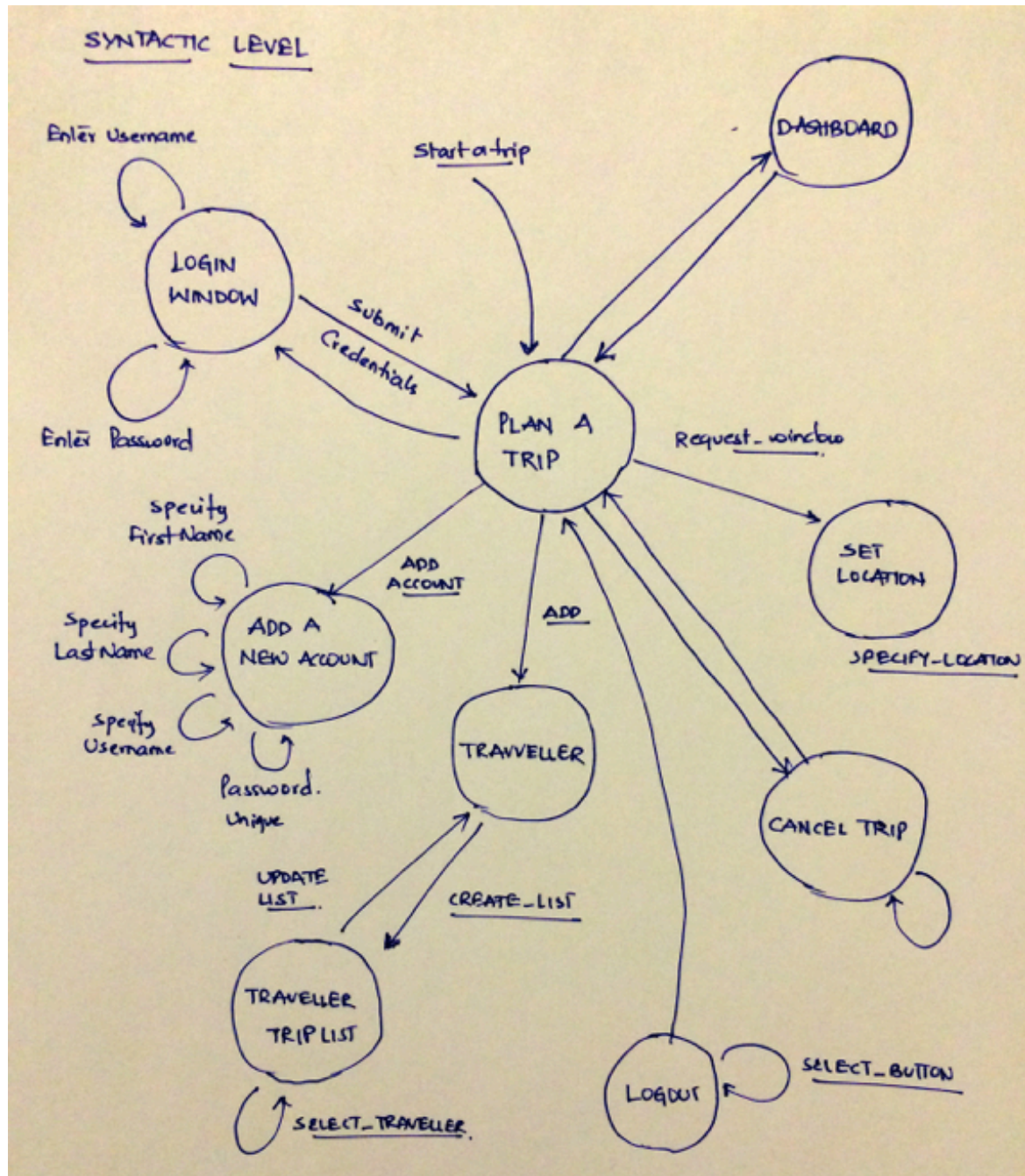
|   |  |
|---|--|
| <b>Function</b>                                 | Login through the Login Page (Login Button)  |
| <b>Parameters<br/>(Explicit &amp; Implicit)</b> | User Name (Required), Password (Required), The combination of both should be entered correctly   |
| <b>Description</b>                              | An attempt to login as a registered user is done. The system contains all the combinations of stored usernames and respective passwords. So it verifies from that and enables the login feature for the right combination entry.   |
| <b>Feedback</b>                                 | If the user inputs the right combination of username and password, the page redirects to the Main Page of the application. If there are any errors in the inputs like a typo error or a wrong combination, then an error is shown where the user can correct it by noticing the error at a particular location.  |
| <b>Error Conditions</b>                         | No username or a wrong username is specified. Remain on same page so that the error can be corrected.<br>No password or wrong password is specified. Remains on the same page so that the error can be corrected.<br>Wrong combination of username and password is specified. Remain on same page and error is displayed here so that it can be rectified. |

|   |   |
|---|---|
| <b>Function</b>                                 | Password Reset (Forgot Password)  |
| <b>Parameters<br/>(Explicit &amp; Implicit)</b> | Answer for Security Question 1, Answer for Security Question 2, Email Address registered, which is the valid one for the system to accept it.   |
| <b>Description</b>                              | If a user forgets the password for login into the application, he can enter the required information to authenticate his identity and retrieve back to the application by resetting a new password.   |
| <b>Feedback</b>                                 | When the security questions are shown, since the user will decide on the security question, the system expects the user to give the right answer in order to reset the password. So if there is a wrong answer or an email address that is not been registered or |

|   |  |
|---|--|
|   | associated with the application, it throws an error on the same page so that the error can be rectified.   |
| <b>Error Conditions</b>                     | <p>Wrong answers to the given security questions. Remains on same page and error seen at that answer location.</p> <p>Wrong unregistered email address to send a link to reset the password.</p> <p>This email address is unique to every person and two or more users cannot hold an account with same email address or login credentials.</p>  |
| <b>Function</b>                             | Create a new account (New User)  |
| <b>Parameters (Explicit &amp; Implicit)</b> | First Name (Required), Last Name (Required), User Name (Required), Nick Name, Address (Required), Password (Required), Re-enter Password (Required), Security Question 1 (Drop down menu), Answer for security question 1, Security Question 2 (Drop down menu), Answer for security question 2  |
| <b>Description</b>                          | If there is a new user who wants to use the application, he/she has to register as a user. This information will be recorded in the system to identify a particular user and monitor his actions in future accordingly. Most of the values have to be unique and mandatory for a user to register for the application.   |
| <b>Feedback</b>                             | When there is a wrong input given by the user, for example while choosing a username which has to be unique according to the system records, if some user chooses a username that already exists in the application, it shows an error saying "Oops, <i>this username has already been taken!</i> " Also it gives a suggestion to the user on what can be chosen instead like "xxxx78" etc. If the user has not answered any mandatory fields, it mentions at the specific location regarding the mistake that has been committed. |
| <b>Error Conditions</b>                     | Mandatory fields not selected or not chosen will be reported as an error. There are some unique fields that are required by the system like username, password, security questions and respective answers.   |

## SYNTACTIC LEVEL DESIGN



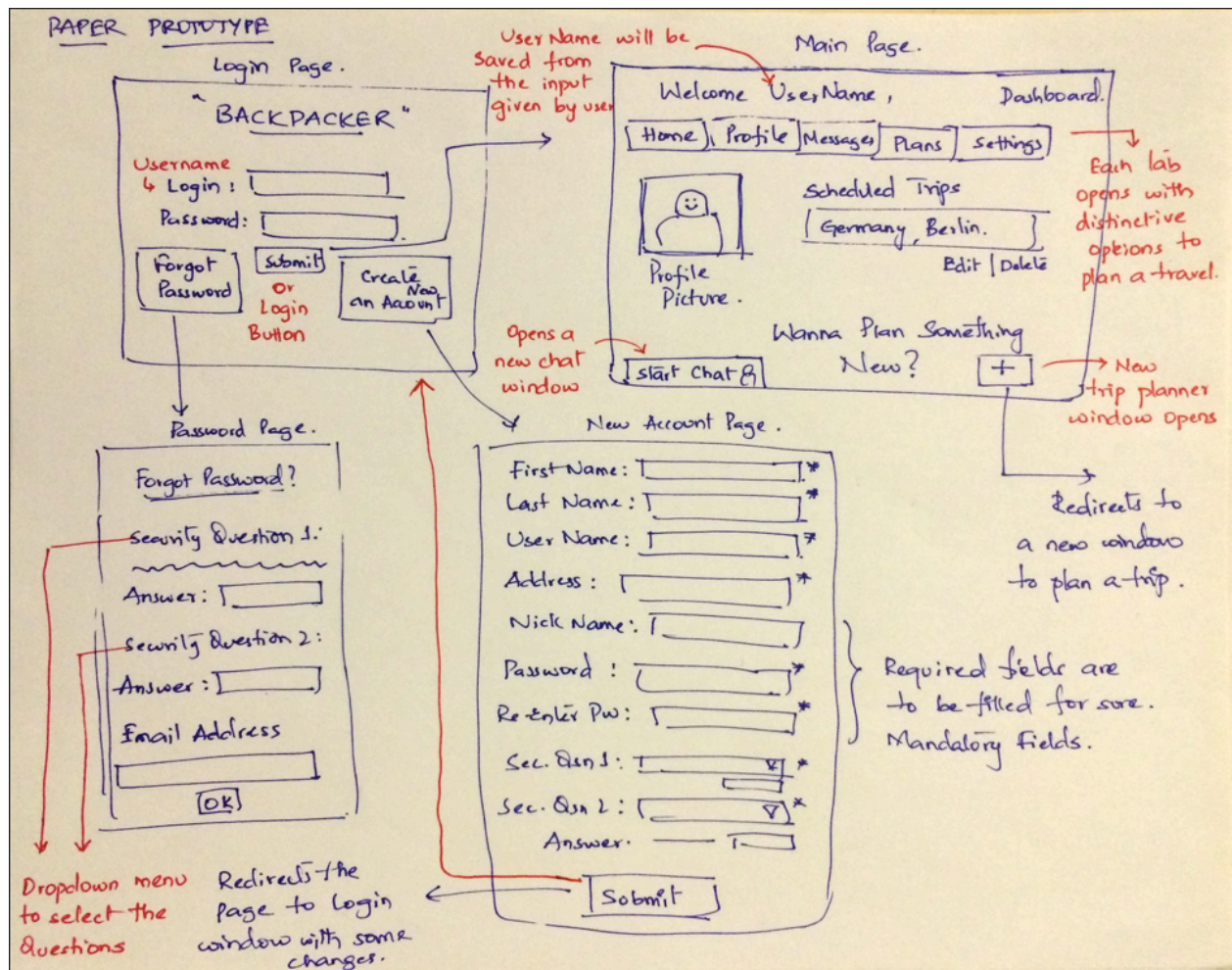
## **LEXICAL LEVEL DESIGN**

This design stage each action from the syntactical level and represents it in terms of sequence on actions on an actual hardware or system operations. Some of them are described below.


1. Create an Account – Click Create a New Account button
  - Opens a new window
  - Enter all the credentials
  - Click submit button
2. Login to the Application – Enter Login
  - Enter password
  - Click on submit button
3. Reset Password – Click Forgot Password
  - Opens a new window
  - Enter answers for security questions 1 & 2
  - Enter the registered email address
  - Submit
4. Initiate Chat – After logging into the application
  - Click on start chat
  - Select desired user
  - Start typing to start a chat



## PAPER PROTOTYPE






### chat window

 status

Search Tab

### DASHBOARD

#### Planned Trips.

-  British Airways. | Timings |
-  Amtrak. | Cost Calculator
-  Road Trip. | Distance travelled.

An interactive dashboard that helps finalizing the trip.

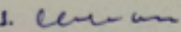
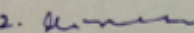
### TRIP PLANNER WINDOW.

The API pulls up all the information regarding the required locations.

TRIP NAME:

LOCATIONS:

TRAVELLERS:

1. 
2. 

ADD MORE

ACCOMODATIONS:

Hotels and Motels!

Based on the price range.

CALENDAR.

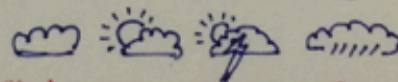
| MONTH |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|
| M     | T  | W  | T  | F  | S  | S  |
|       |    | 1  | 2  | 3  | 4  | 5  |
| 6     | 7  | 8  | 9  | 10 | 11 | 12 |
| 13    | 14 | 15 | 16 | 17 | 18 | 19 |
| 20    | 21 | 22 | 23 | 24 | 25 | 26 |
| 27    | 28 | 29 | 30 | 31 |    |    |

The events scheduled here will sync with the calendar in your laptop or a PC.

ACTIVITIES:

INTERESTS:

WEATHER:



Cloudy Sunny Thunder Rainy.

More travellers can be added from the friends in our list.