

CSE 5324 – Software Engineering – Analysis, Design and Testing

Project Name (possible): MavBuddy

Instructor: Prof. Cristoph Csallner

(Inception Revision)

Team - 6

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Introduction: The main idea here is to come up with an application, which will help students at UT Arlington to get in touch with the fellow students, who are ready to help them out with their basic needs.

Motivation: A student life is tough. Apart from academics, a student also has to manage his/her physical, financial & social well being.

Life here at UT Arlington is no different. Our team was looking for ways to facilitate the network of students so that it could help in solving common situations prevalent in their everyday lives.

New as well as current students can interact with each other for many different reasons, whether they need a roommate, or they need help for going somewhere, or if they want to know about different events happening on/off campus.

Not many students own a car here at UTA. Also, public transport is not available in Arlington. Students can take a taxi to their places of interest, but there are students who are willing to help fellow students by providing them rides to different places.

The idea is to combine all the above requirements and include it in one single android application, which can be used by students, irrespective of their major.

Features:

The primary features of the application will be:

➤ **Housing:**

New students coming here at UTA need a place to live. Apart from on-campus apartments and residence halls, students also may live off-campus. Also, current students living on- or off-campus also may shift to new places or may have a vacancy in their homes that they need to fill up.

With the help of this application, the students can search for a vacancy available in a place of their choice. They can also post a request for a vacancy requirement.

➤ **Friendly Rides:** Not every student has the luxury of possessing a car. But, (s)he'll always need to go places, whether for shopping, business, or leisure. The students that own a car, can, in free time, provide rides to the students that need them.

With the help of this application, the students can request rides to places they want to go, or the student with a car can post his/her available times in which s(he) is ready to provide rides.

➤ **Events:** A student life is incomplete without leisure! A student can have all the information about all the events happening in and around campus at his fingertips.

The application can provide all the details about an event, like its location, cost, etc.

Workflow:

Home Screen



Housing



Friendly Rides



Events



Data Structure:

- User Details:
 - ID, Username, Password, E-mail, Created_Date
- Housing:
 - ID, Title, Name, Apt_Name, Type_of_Acc, Type_of_apartment, Persons_Req, Move_in_Date, Move_out_Date, Rent, Mob_No, Email, Comments, Post_Date
- Rides:
 - ID, Title, Name, Destination, Mob_No, Email, Start_Time, End_Time, No_of_People, Comments, Post_Date
- Events:
 - ID, Title, Description, Start_Time, End_Time, Location, Cost, Post_Date

Plan of Action:

Iteration Plan:

- Iteration 1:
 - Static pages
 - Database creation
- Iteration 2:
 - Implementing functionalities like housing, rides and events
 - Unit testing
- Iteration 3:
 - Session management
 - Cross-device testing

Risks: One of the major risks that can be encountered while development is compromise on the user privacy.

The other risk that might be encountered is that, the users may post irrelevant or false data.

Mitigation: For the first risk, we are limiting user profile to their basic information, and leaving it on them to share contacts when and where needed.

For the second, we'll be implementing 'Report Spam' functionality.

References:

1. Maverick Horse Logo (on dummy 'Home Screen' screenshot):
<https://www.uta.edu/ucomm/identity/logo/blaze.php>