**CS490**

**Blitz**

**Product Backlog**

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**1. Problem Statement**

In real life, people will encounter all kinds of small problems they cannot handle and need help. A platform (app/website) will provide an efficient way for them to find someone who is willing to help.

**2. Background**

**a) Domain:** Local Business Sharing Platform

**b) Targeted users:**  People in Lafayette area

**c) Other similar applications:**

1. Craigslist
2. Airbnb
3. Yelp

**d) Limitations & Solutions:**

Compared to existing similar solutions, our solution has one biggest difference that it allows users to offer and request various different services. Users can also personalize their requests. Carpool, food discovery, tutor finding and housing are four main features that we have on our application. Users are able to search for services, make a request or become a service provider to post ads that people can reach out to them. And under each category, we will have different algorithms and post regulations in order to provide the best user experience and the user interface.

**3.Requirements**

**a Must be done**

**a) Functional requirements:**

**General:**

1. As an user, I want to have a page to login or sign up.
2. As an user, I would like to reset my password when I forget it.
3. As an user, I would like to choose from requesting or providing a service after I open the app.
4. As an user, I would like to have a listview on services requested/provided nearby.
5. As an user, I would like to have a map view on services requested/provided nearby.
6. As an user, I would like to browse the requests by different categories.
7. As an user, I would like to sort the services provided by time/location.
8. As an user, I would like to chat with the service provider / service requester.
9. As an user, I would like to receive notification when I get message from other users.
10. As an user, I would like to accept one from several service providers who respond to my request.
11. As an user, I would like to receive notification when my request get accepted.
12. As an user, I want to close my request / service at anytime.
13. As an user, I want to check the satisfaction rating of service provider / requester.
14. As an user, I want to post the multiple-user service.
15. As an user, I would like to have a search box to search for certain request or service.
16. As an user, I want to have some recommend services when I am trying to post similar request
17. As an user, I want to give a feedback to provider/requester when the service is completed.

**User Profile:**

1. As an user, I would like to update my password.
2. As an user, I would like to see my profile, including avatar and nickname.
3. As an user, I want to update my own information at anytime.
4. As an user, I would like to see other people’s feedback scores.

**Carpool**:

1. As a carpool provider/requester, I would like to initiate a chat with an existing service requester/provider by clicking the item.
2. If there is no desired provided service, as a carpool requester, I would like to post a request including information such as pick up location, destination, time and number of passengers requesting.
3. If there is no desired requested service, as a carpool provider, I would like to post a new service including information such as departure point, destination, time and number of passengers can hold.

**Food Discovery:**

1. As a service requester, I would like to chat with the provider to a service by clicking the item.
2. As a service provider, I would like to create a new service by providing information about menu, food pictures, remaining quantity, location and hours.
3. As an requester, I would like to have a online food ordering option.

**House Renting:**

1. As an user, I would like to see the pictures of the house.
2. As an user, I want to be able to know things like whether there are wifi, air conditioner, refrigerator and etc.
3. As an user, I would like to choose the check in date and check out date when I making an order.

**Other:**

1. As an user, I would like to post a request/provide in the “Other” category for the uncategorized service.
2. As an user, I would like to see requested/provided service that other people post in the “Other” category

**Non-Functional Requirements:**

1. The Server will be written in Node.js for the best concurrency performance. Data will be stored in MongoDB.
2. The Server should be able to handle five million connections simultaneously with no perceptible delay.
3. The Server should not crash or lose data in any circumstances.
4. We will provide client for iOS and Android client.
5. All searching or listing should be done within one second under typical network condition.
6. In app chatting will be implemented on a separate chatting server which can deal with more than one million messages per second.

**b) Will be done if time allows:**

**1) Functional Requirements:**

**General:**

1. As an user, I would like to pay for service through this app.

**Need for Ride:**

1. As an user, I would like to request for a ride by posting a new request.
2. As an user, I would like to share my real time location with other client (users accept my request)
3. As an user, I would like to reserve a car for later use.

**Tutor:**

1. As a service requester/provider, I would like to chat with the provider/requester to the tutor service by clicking the item.
2. As a service provider/requester, I would like to create a new service by providing/requesting course information, location and time.

**2) Non-Functional Requirements:**

1. We can provide client on web platform.

**Reference to rubric:**

[**https://www.cs.purdue.edu/homes/bxd/307/**](https://www.cs.purdue.edu/homes/bxd/307/)