ITMD567 – Web System Integration

The Web application I will be building is to basically bridge the gap between the Needy and the people who want to help.

The Motto of the Application will be "If you have some extra money help someone and make a difference in their life"

There will be 2 main Users in the application who are, the people who want to Donate and help others and on the other end NGO's Which work for the poor, Orphans, homeless and old people. These NGO's can give back to the people by sending them things made by them or uploading pictures on how the people are getting benefitted by this.

The Web Application will have the technologies from the MEAN Stack,

Mongo, Ember, Angular, Node. And the application will be hosted on AWS EC2 Instance.

Use Cases:

1.) The Donor registers and creates an account. He can see a list of Ngo's to whom he can donate.
2.) The Donor selects an NGO and can contact them through direct messages as to understand how they make use of the money. And what are the problems faced by them.
3.) The NGOs can register and create accounts for themselves as organizations.
4.) The NGOs should be able to respond to the messages from the Donors and show them proof of how they are utilizing the Money by showing pictures.
5.) The NGOs can even make their case stronger by giving something back to the people who have helped them in funding. They can advertise about this when someone checks the profile of the NGO.

Technologies to be implemented.

JavaScript and it's frame works like Angular, Ember, Node.
Responsive Interface using boostrap.
Location technology.
Mongo DB for the Database operations.
AWS EC2 to be used as the cloud server.
Facebook Integration.
Stateless Token Authentication.
File Uploads.
MongoDB.
Google Login.

Deployment on Amazon EC2 cloud.
Unit/Integration testing of the User Interface.

Project Timeline.

1st Week (9/17) - Initial Design plan, No. of Screens, backend User Setup.

2nd Week (9/24) – Login pages and landing pages for Donors and NGos.

3rd Week (10/1) – Google Login and Facebook integration and Stateless Authentication.

4th Week (10/8) – Backend Functionality Implementation.

5th Week (10/15) – Front end and backend integration for functionality.

6th Week Mid project (10/22) – Mid week checkin end to end testing of Donor payment and gateway

7th Week (10/22) – Direct messages Integration between Donor and NGO.

8th Week (10/29) – NGO ability to upload the pictures and show it to the Donor of how the funds have been utilized.

9th Week (11/5) – Categories of NGOs. Who can start fund raisers and donors can pool money into it.

10th Week (11/12) – NGOs can offer to pay back their top Donors by sending them gifts made as a thank you.

11th Week (11/19) – Location technology of Identifying the location from where the User is logging in from.

12th Week (11/26) – Preparing to deploy the whole thing on AWS EC2 Instance.

13th Week (12/03) – End to end Testing. And Test cases for Integration testing of UI.

14th Week Final Goal (12/10) - Complete Functionality test of both the Donors and the NGOs Login capabilities.