**Intelligent Notification System**

**VISION**

**Introduction**

Building an Intelligent Notification system for UTD students enrolled in classes. The system will send a reminder to the students regarding the relevant events, lectures or workshops on the go.

**Positioning**

UTD organizes several events, workshops, programs throughout the year for students and employees. For some of them we get email, others are advertised using online web pages or social media.

At times it becomes difficult to track all these events along with the regular class schedule. This App will help the user to connect to all the relevant events by sending a reminder before 15 minutes any event kicks off.

**Stakeholders**

1. Group 7 members – The team which will build this system who is also their own customers.

Bhargavi – will ensure defect management, quality assurance and document management

Radhika – will ensure development of the business logic of the application

Saquib – will ensure the abstraction of the modules and the flow between them

Sathish – will ensure the information storage and retrieval

Divya – will ensure the development of the user interface design along with its verification and

validation

1. UTD students (actual users) – The actual user who will use the final product. Limited users will also act as loyal customers for the beta release of this product. They will get a notification regarding the events along with its time, location and further details.

**High-Level Goals**

1. Create a user sign up page. One time process for every user.
2. Ability of the user (those who signed up) to login and manage their preferences.
3. Create a preferences section based on events categorization. This will be reflected on the UI as well as DB
4. Maintain a database for users (who signed up) for the application and for events extracted
5. Monitor the events database regularly to check the new events as well as expired events
6. Maintain the users database to reflect their modified preferences
7. Send sms to the respective user 15 mins before the start of the event (based on his selected preferences)

**Product Overview**

1. Sign Up

The first time user of this application will sign up. First Name, Last Name along with utd email id will be required. Option to set his password will be provided during signup.

1. Verification of Registered User

For every user who signups will receive a confirmation email with a pass code and link to redirect to the required page where he needs to put that passcode. The system will verify the user based on this passcode and grant him access to the system.

1. Log In

Users (after initial sign up) can log in to the system using their email id and password.

1. Preferences of events selection

Users get a list of preferences based on the categorization of events (academic, nonacademic, volunteer, intercultural) to choose from based on their area of interest.

1. Edit and update preferences

The user can login and modify the preferences any number of times and save the recently selected preferences.

1. Send notification to the user

Before any event (as selected in the preferences of the user profile) notification is sent on the user mobile via sms. It will display the event start time, duration, location and other details.

**Constraints**

1. User needs to sign up with the system (one time process).
2. User needs to verify his validity by entering the passcode he receives from the email after sign up.
3. User needs to select his preferences and currently enrolled class number and section.
4. User needs to have a mobile where he can get a notification using sms.

**Risk**

1. We need access to the UTD database, more precisely events relation. We have also raised a request to the concerned authority, but since we are following Agile methodology we will not be able to work on the key deliverables by the end of our first iteration if we wait for the access. Hence to overcome this issue we will simulate the events from UTD events page and also store them in out customized events DB.
2. Fetching of the events information from UTD pages. If any secured page, will not be able to access the required information.
3. Database for the events should monitor at certain intervals the expired events and at the same time insert new event. This process should be monitored regularly without fail.
4. User Data can increase at a fast rate in future. Then the system would require large resources in terms of repositories.

**GLOSSARY**

**Description**

It consists of the key domain terminologies of the IN system

**Aliases**

Preferences – selected categories of the events based on the area of interest of the user

Notification – reminder of the event using sms on their mobile

**Acronym**

UTD – University of Texas at Dallas

UI – User Interface

DB - Database

sms – short message service

INS – Intelligent Notification System