**Story for Dhaka University Calendar Management application**

**Account Creation**

**Sign UP:**

The user can download the application from google play store or Dhaka University main website page (admission page). There will be two type of users, such as - Registered and Unregistered. The Unregistered users don’t have to create account to use the application. The registered users will be first year students of the university. To create account the users will have to provide their first name, last name, email address, password, mobile no, admission roll, department or institute name. The user email ID and mobile no have to be unique. The provided information will be verified using university central database. If all the information is correct, user will be sent a verification code to his/her mobile number. The verification code will be generated from the system and it will be valid for 5 minutes. The user will have to put the verification number in the authentication window. After phone number verification user will be notified by mail.

**Sign In:**

Aftersuccessful sign up the user can sign in to his\her account using mobile number and password or email and password. The email id or mobile number and password will be verified. If the verification is successful, the user can log in to the system. If the password is wrong, there is a retry option. If the retry count is 5, the user will be blocked for a while. After block time has finished user can attempt to log into the system again. User can update their profile information. User has an option to log out.

**Role Based Access**

**Unregistered user:**

User will have access to basic feature such as Dhaka University brief history, DU governing body, Department / Institute information, Map, university general calendar, transport schedule , Chat bot, clubs and some notable achievements.

**Registered User:**

Registered user will have full access to all the features of the application. He / She can use all the facilities of unregistered user and also can use exciting features such as group chat and personalized department/institution wise calendar.

**Management Components**

**Dynamic Part**

**Map management:**  Registered user and unregistered users both can access map. Users can see his/her current position and set the destination to get route. The can also search by department and offices. They can also see exciting places near the university.

**Communication Management:** A group chat service will be provided to the user. The group will only be allocated to the first year students of the same department/institute. A group service will be created when the first student from a particular department or institute press the join group button. User can leave group if he/she wants. The group chat it text only. All information shared on the group can be viewed by all members of the group. After a year the group will be deleted automatically along with all the existing message.

**Chat-Bot:** A chat bot for answering the most frequently asked question will be provided to the users. The FAQ list will be updated by gathering the most asked questions. The user can give a rating to the answer provided (5 star for most effective and 1 star for wrong, irrelevant answer).

**Calendar Management:** There will be a specific calendar for each department / institute. A registered user can only view his/her own department calendar. The calendar will include all DU granted holidays , Academic calendar entries such as – time to start semester or year, in-course exam start and finish date , year or semester final start or finish date and other activities . The user can edit his / her own calendar to his/her preference.

**Static Part**

**DU information management:** All information that are not likely to change are part of static part. It includes DU brief history, notable achievement, information about governing body, department / institute description, Club or society details, pictures of famous places in DU campus etc. This information will be provided by DU calendar committee and only they have the right to change this information.

**Transport Management:** Schedule for the all the buses and their stoppage will be available for all users.

**User Interface**

**Basic Modules:** The Basic modules that will present in the application at start is a sign up, sign in button. User can cancel it to go to the main interface. It contains a DU logo, pictures of DU, basic map, transport and governing body details. After sign in the registered user will be taken to a different start page where all management module will be visible.

**Language:** When opening the app for the first time the user will be given an option to choose language. There will be only two options in the language setting- Bengali or English. The user can choose one of them. User can change the language any time in settings.

**Coding and Development**

The application will be developed for Andriod platform. It will be written in java language and by using Android Studio IDE.