**Dhaka University Calendar**

This is an android application that is entitled to the name “Dhaka University Calendar”. People can avail this application to be familiar with the Dhaka University by using the basic features such as – infrastructure info, transport info, map info, general calendar, university map as well as exciting feature like specific calendar and group chat.

**Account Creation**

**Sign Up:**

The user can download the application from Google play store or Dhaka University main website page (admission page). Any person with Google account are eligible for sign up and to complete their profile the users will have to provide their user name and type, such as- student, teacher or other. Depending on their type they will be required to enter their department/institute name and academic year.

**Sign In:**

After sign up is done, users can sign in to their account with Firebase Auth 2.0 Sign In.

**Update account**:

Logged users can update their profile by entering new name, department/institute name or academic year.

**Delete account**: Logged users can delete their account as their wish any time and their data from firebase database will be deleted accordingly.

**User Based Privilege**

As exciting features are specific for different users, so these features are shown according to the user type:

**Other**: This type of users can use the basic features, such as - infrastructure info, transport info, map info, general calendar and university map.

**Teachers:** Teachers can use the basic features as well as specified calendar, group chat based on their given department.

**Student:** Students can use the basic features can use all the basic features as well as specified calendar, group chat based on their given academic year.

**Management Parts of Project**

**Information management:**

It includes university brief history, notable achievement, information about governing body, department / institute description, halls, Club details, description of popular places in university campus. Description of the information management parts are given below:

Dhaka University governing body: This includes the name, rank and picture of the Dhaka University governing body.

Administrative committee: This includes the name and rank of the administrative committee members.

Editorial committee: This includes the name and rank of the editorial committee members.

List of Faculty Deans: This includes a list of faculty names and its Deans.

Department /Institute/hall/offices: This includes department /institute name, establishment year , description of the department/institutes/hall/offices and locations.

**Transport Management:**

Users can see the schedule of buses on different route and their stoppage on the way.

**Map management:**

Users can see their current position. They can also search and get route for their destination. They can also see exciting places near their position within the university area.

**Communication Management:**

A group chat option is available for the students based on their academic session and department. Students can also leave and rejoin this chat group as their wish.

**Calendar Management:**

There will be two kinds of calendar for the users. A general calendar that entails all holiday and events marked by Dhaka University calendar committee is available for general or other users. And there will be a specific calendar for each department / institute that will mark down all the academic activities as well as university holidays.

**Administrative Responsibilities**

There will be multiple role based admin account for this project. They will have a different web interface for their convenience. They can upload, update or delete information to the server and database will be updated accordingly. They have the responsibility to maintain the database and server that’s providing service for the application. They will have ensure the data integrity and security.

**Design Overview of Application**

**Homepage:**

There will be icons for all the functions such as map, calendar, transport, chat group, infrastructure icons in the homepage. Users will find a search option to search information. In the settings option users can change the language to Bengali or English.

**Other Pages:**

Users can go to other pages from home page. The design of the page will be created on the content of the page like – the combination of text, image or other buttons.

**Search**

Users can search for any information in the application. The search string will be used to generate database query to find information from the database. If result of the query is null then it will show specific page regarding no result found. If query result is found, then link to the page will be shown to the users.