Moods – App for Champlain Students

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**Introduction**

As our final project we want to create a social network on android phones for Champlain students. We want students to be able to meet their friends and new people in the College more easily by using our application. Each user is going to be able to reach out to other students within a click.

**Design**

Analyze, define and understand the problem.

Algorithm

Explaining your design and the reason behind it

UML diagrams

GUI (design of every single page)

Design of every object in your project

TimeLine, including all steps from first week of classes until the day of delivery

|  |  |  |  |
| --- | --- | --- | --- |
| Task | Plan Date | Assigned Person | Notes |
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**Software used:**

**Platform:** Android Java

The application is expected to run on Android Devices. All devices using Android Lollipop and above will have an access to the application.

**Menu**: User profile

The user will interact with the application throughout multiple pages and menus. There will be a home page for the user to change his mood and status, yet the rest of the settings will be accessed through the settings page.

**Accounts**: Login Authentication

The users will be able to log from a database. A basic encryption scheme will be used to protect the user’s privacy. Using this database, the application will be able to retrieve the user’s information.

**Code sharing platform:** GitHub

The GitHub platform is used in order to efficiently work on this project. Using this service, one may share his codes and resources in real time with his coworkers.

**Code IDE:** Netbeans & Android Studio

**Netbeans:** This program is used to program the Database and the networking since the coding environment is better for this kind of programming. Android Studio is not made for such programming.

**Android Studio:** Android studio is used in order to manage and program everything that is in relationship with the activities. This program is optimized for a visual environment in order to code XML and Java files efficiently.

**Features**

* Location of users (sends to selected contacts)
  + Uses GPS location from device (API integrated in Android Studio )
* Mood & Statuses (Looking for someone to Eat, Study, Tutor, Lift/Go Home, Chill)
  + Helps you communicate with friends
  + Stored in database (resets every 24h)
* Map of Champlain
  + Drawn by us (JPG format)
    - Ask school for plans
  + May use GoogleMap SDK
* Notifications to cellphones
  + Send if the friends is near or accepted a “poke request”
* Access to vibrations or other phone components
  + Access to GPS
  + Access to Vibrations
* Networking
  + Use SQL databases (SQLite implemented in Android Studio)
  + Store user information on server
    - User name
    - Email
    - Pictures
    - Schedule
  + Store user information on phone
    - ID
    - Temporary mood

**Conclusion**