

Project Charter - Team 4

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StudyBuddy (Android Application)

1.) Problem Statement:

It is often difficult for students to form study groups with fellow classmates because of busy schedules or due to the lack of contact information. StudyBuddy helps find nearby classmates that may be able meet up and help a student with their coursework or a particular problem.

2.) Objectives:

- Intelligently match students, that are in need of help or assistance, with nearby students enrolled in the same course.
- Automatically retrieve the schedule for each student.
- Allow users to send direct messages after they have matched.
- Provide an intuitive and aesthetically pleasing graphical user interface.
- Minimize the application's battery consumption.

3.) Stakeholders:

Users - Purdue students.

Project Owners - Matthew Lenartowicz, Tyler Grikas, Aaron Dierking, Evan Tragesser, Guntas Grewal, Jacob Nordland.

Developers - Matthew Lenartowicz, Tyler Grikas, Aaron Dierking, Evan Tragesser, Guntas Grewal, Jacob Nordland.

Project Coordinator - Yonghwi Kwon

4.) Deliverables:

- Android application
 - This will be the main deliverable and will require the majority of our time and effort.
 - Will utilize API for Purdue course catalog (<https://github.com/Purdue-io>).
 - Will utilize Google Cloud Messaging for Android to notify eligible users that a classmate is in need of some assistance.
 - Will utilize GPS location services to determine user location and find nearby classmates.
- Backend server
 - Will assist with Google Cloud Messaging for Android
 - Will provide a messaging system for users that have matched with each other
 - Will provide a system which allows the Android application to find nearby users
 - If time allows, the backend server may store user account information and help integrate features such as a flagging/reporting system, match prioritization, as well as a room and corresponding building database.