

DukeStudy

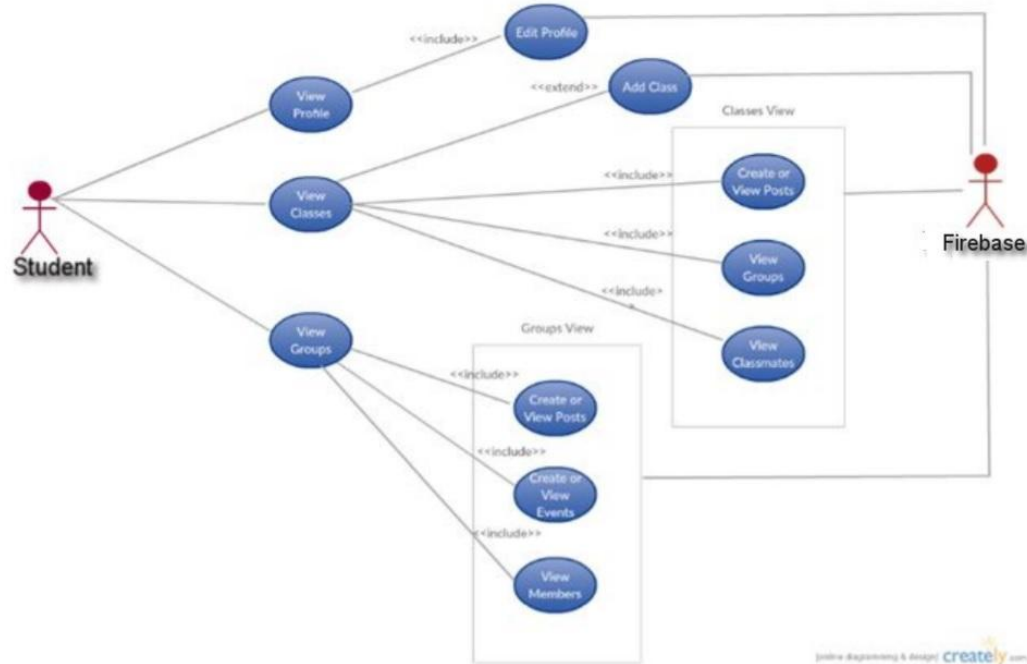
Team JBiebs

Overview

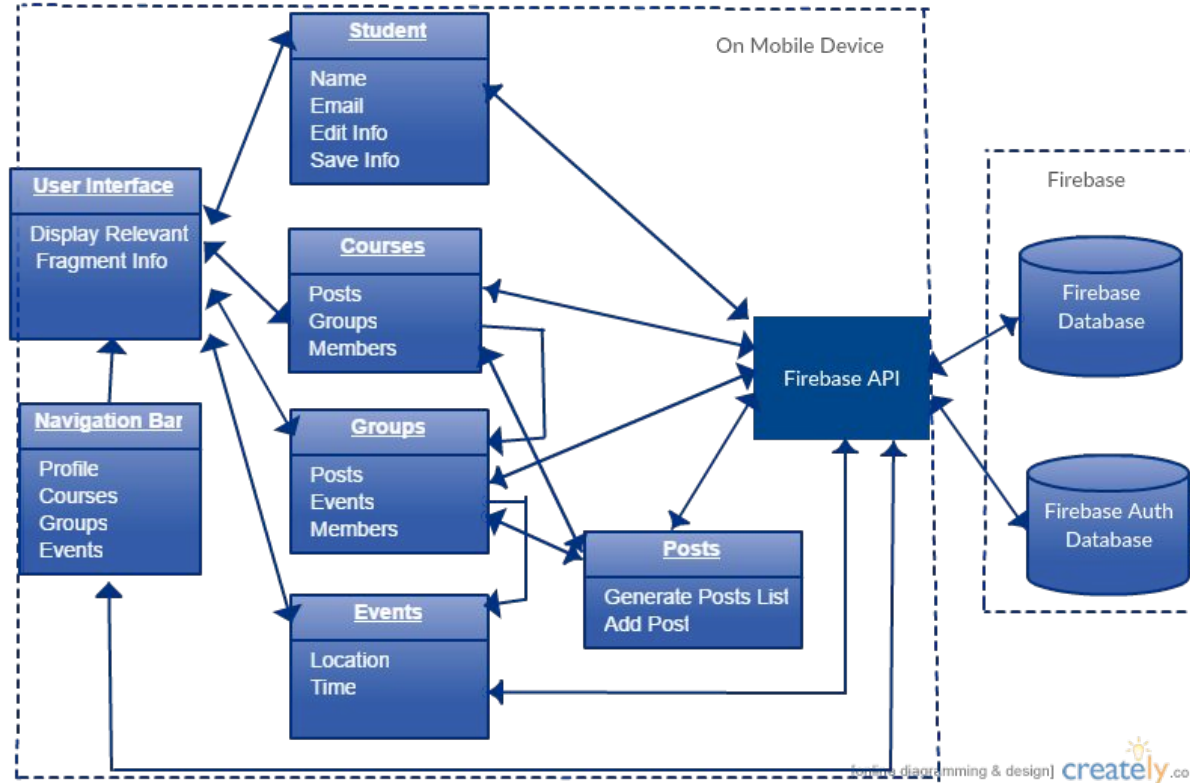
- **Purpose:** help connect Duke University classmates to produce a more productive learning environment
- **Platform:** Android, mobile
- **Features**
 - Find and add current Duke classes
 - View or post questions
 - Form study groups
 - Schedule study events

Documentation

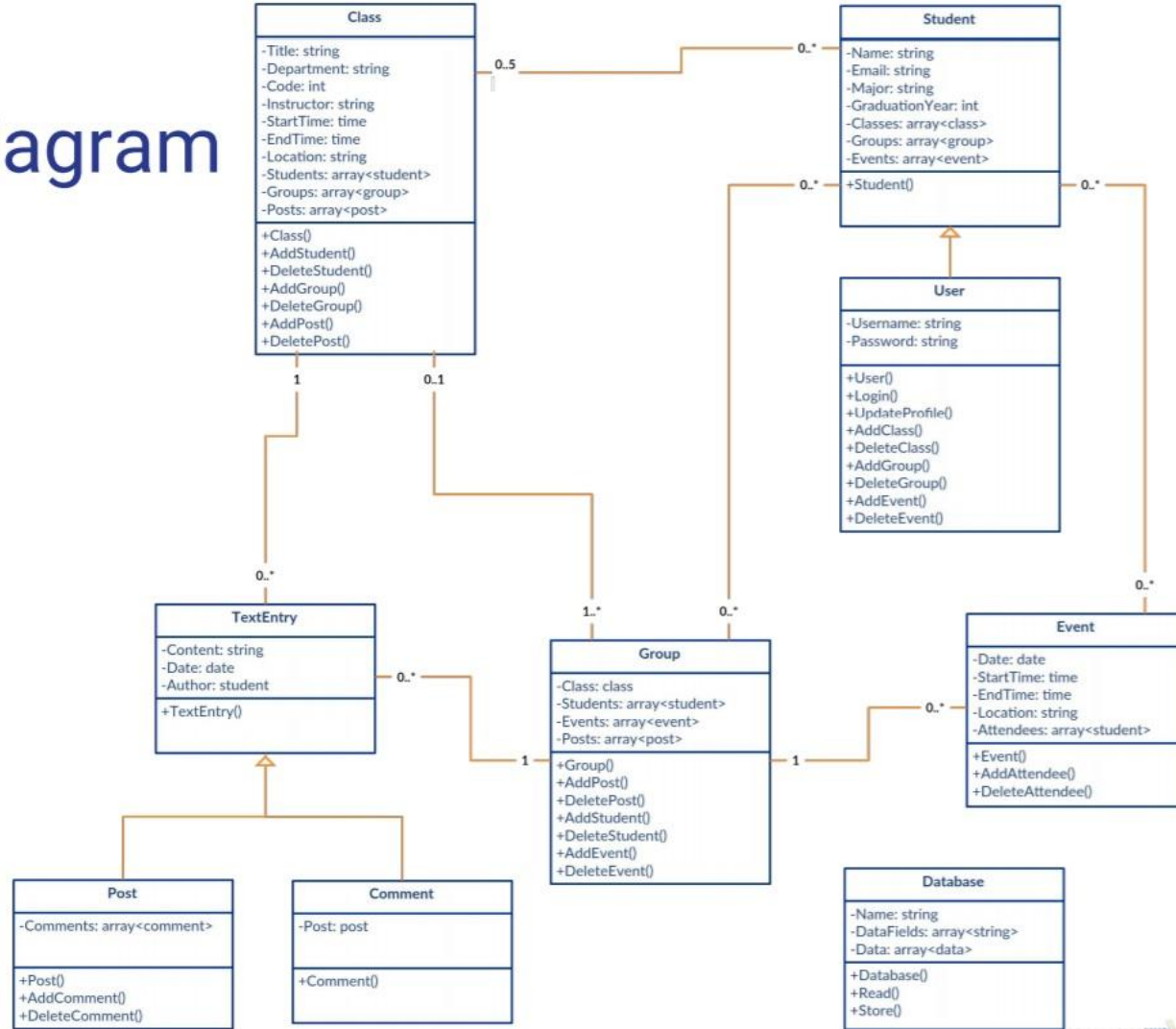
Final Use Case Diagram



Final System Architecture



Class Diagram



Documentation Plan

Task ID	Title	Description	Start	End	Duration (days)	Assignee	Dependencies
0.1	Requirements Document	Make necessary changes to requirements document, such as adding/removing requirements based on project plan.	3/15 4/10	3/24 4/14	10 5	Sravya	
0.2	System Architecture	Clean up and edit the system architecture diagram to reflect final design decisions.	3/25 4/15	3/28 4/17	4 3	John	0.1
0.3	Class Diagram	Make necessary changes to class diagram and add any additional classes or methods implemented.	3/29 4/15	4/2 4/17	5 3	Branch	0.2

Project Plan: Sprint 1

Task ID	Title	Description	Start	End	Duration (days)	Assignee	Dependencies
1.1	Side Navigation Bar	Create side navigation drawer that lists all page options.	2/21	2/22	2	John	
1.2	Top Navigation Bar	Create template for pages with top navigation bar. At least 3 navigation tabs will be included.	2/23	2/24	2	John	
1.3	Profile Page	Create template for profile page containing static, dummy data.	2/25	2/26	2	Branch	
1.4	Course Page	Create template for course page. Note this uses the top navigation template and will be filled with static, dummy data.	2/27	2/28	2	Branch	1.2
1.5	Add Course Page	Create template for add course page containing static, dummy data.	3/1	3/2	2	Branch	1.1
1.6	Groups Page	Create template for groups page. Note this also uses the top navigation template and will be filled with static, dummy data.	3/2	3/3	2	Sravya	1.2
1.7	Navigation Integration	Link options listed in navigation bar to page templates listed above.	3/4	3/5	2	John	1.1 1.3-6
1.8	Database Setup	Setup backend database using Firebase console and test reading/writing dummy data.	3/5	3/9	5	Sravya	

Project Plan: Sprint 2

Task ID	Title	Description	Start	End	Duration (days)	Assignee	Dependencies
2.1	Database Structure	Develop the exact database structure, including all fields and format.	3/10 3/17	3/14 3/21	5	Shravya	1.8
2.2	Course Class Framework	Create Java class for Course, implementing methods not dependent on other classes (i.e. Class has list of Students, but this will not yet be implemented here due the dependency)	3/12 3/19	3/15 3/22	4	John	
2.3	Student Class Framework	Create Java class for Student, implementing methods not dependent on other classes.	3/14 3/21	3/16 3/23	3	Branch	
2.4	TextEntry Class Framework	Create Java class for TextEntry, implementing methods not dependent on other classes. Note this will be used for Posts in the class and group pages.	3/15 3/22	3/18 3/25	4	Branch	
2.5	Group Class Framework	Create Java class for Group, implementing methods not dependent on other classes.	3/18 3/25	3/20 3/27	3	Shravya	
2.6	Event Class Framework	Create Java class for Event, implementing methods not dependent on other classes.	3/19 3/26	3/21 3/28	3	John	
2.7	Finalize Classes	Implement remaining methods that were dependent on incomplete classes.	3/22 3/29	3/26 4/2	5	Branch	2.2-6
2.8	Database and Class Integration	Integrate class methods requiring database, using JSON to facilitate communication. Test reading/writing real data.	3/27 4/3	3/30 4/6	4	John	2.1 2.7

Project Plan: Sprint 3

Task ID	Title	Description	Start	End	Duration (days)	Assignee	Dependencies
3.1	User Authentication	Add authentication for users to login and signup on the app. Add methods to save usernames/passwords to database.	4/1	4/2	2	Branch	2.1
3.2	Profile Page Functionality	Display relevant data on the Profile page from the database in real time, including name, major, and graduation year. Add functionality to UI buttons (such as Edit Profile).	4/2 4/9	4/4 4/11	3	Sravya	1.3 2.3
3.3	Course Page Functionality	Display relevant data on the Course page from the database in realtime, such as posts, classmates, and list of study groups. Add UI button functionality (such as Create Post).	4/3 4/7	4/6 4/10	4	John	1.4 2.2
3.4	Add Course Page Functionality	Implement Add Course option such that a user can successfully add a course to their profile. Display user's current courses in side navigation bar.	4/4 4/10	4/6 4/12	3	Sravya	1.5 2.2
3.5	Groups Page Functionality	Display live data on the Groups page, including posts, members, and list of events. Add UI button functionality (such as Create Event).	4/6 4/10	4/9 4/12	4	John	1.6 2.5
3.6	Unit Testing	Test edge cases across application, including different user input conditions.	4/10 4/13	4/14 4/17	5	All	3.1-5
3.7	Final Debug	Debug final implementation of the application and make minor adjustments.	4/15 4/17	4/19 4/19	5 3	All	3.6

Testing Plan

Component Testing

Test ID	Title	Start	End	Duration (days)	Asignee
C1	Login	4/6 4/13	4/8 4/13	3 1	John
C2	Profile	4/6 4/13	4/8 4/13	3 1	Branch
C3	Posts	4/6 4/13	4/8 4/13	3 1	Sravya
C4	Groups/Events	4/9 4/14	4/11 4/14	3 1	John
C5	Course/Group Members	4/9 4/14	4/11 4/14	3 1	Branch
C6	Add Course	4/9 4/14	4/11 4/14	3 1	Sravya

System Testing

Test ID	Title	Start	End	Duration (days)	Asignee
S1	Requirements	4/12 4/15	4/15 4/15	4 1	All
S2	Use-cases	4/12 4/16	4/15 4/16	4 1	All
S3	Beta Testers	4/15 4/16	4/19 4/17	4 1	All
S4	Survey	4/15 4/17	4/19 4/17	4 1	All

Demonstration

User Story

- Justin is a Music major at Duke University
 - Taking Software Engineering class this semester
 - As you can tell, has not yet attended class...
 - Final is coming up, and he is struggling
 - Does not know anyone

Demonstration

Questions?