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| Student Name: Abdulrahman Alshaghdali | Student Number:D12123249 |
| Project Title:   Let’s Unite | |
| Summary (approx 200 words): The idea of let’s unite app came from facing a real life experience in living in abroad country or when starting college as fresh student and facing hard time meeting with colleagues from the same class or from the college. The general idea of this application is to implement an application that will have three main goals to reach by implementing it.   1. The first goal is achieved by implementing a location engine on a web server, and then depending on specific groups of users (such as DT211/4 group) who would be having their location on and they are in the same area of e.g. 5 Km radius, the system should detect they are on the area of nearby. So whenever any of these users’ check-in the system will send a notification to the others from the groups who is nearby telling them the exact location of this guy. 2. The second goal (Let’s meet up), is by implementing a news page, that news will be generated by getting Tweets, posts from social media and then, those posts will be saved on the web server. Applying analysis such us detecting any abuse comments or bad words. After that, more analysis can be applied, so checking if this specific post has event word or meeting so giving these posts a priority or categorise them to different colours or different tabs, so they can be seen easily. 3. The third goal, is implementing event tab so all the CRUD functionality, so admin users can add events and allow other students to sign up for these events. Another analysis can be done here such as specify who the event should appear to either males or females or both. And a chart can be implemented to show the number of people who is interested in attending a specific event.   With all mentioned above all users required to Sign up; Requesting from every user to sign up and collect their data and stored in a Database. Other way of sign up can be used is by using a third part website such as Facebook so the important details can be collected from the users Facebook profile page. | |
| **Background (and References):**  We have reached a time where most people depending on technology, and the majority of the old ways to meet people or to make friends have almost disappeared. As well as, student’s union on colleges or out of college still need to do more to improve the students experience while they are colleges.  There are many social apps in the market which allow their users to meet up using another idea, one of these apps which called Meetup which only allow user to meet depending on the category they chose e.g. cycling groups or music. Another App called Glynk which allow user to meet depending on the interests as well but it doesn’t have the option of sharing location between them.  There hundreds of apps on the market which allow people to meet other random people who has match on a specific city or interests in sport or music such as meetngreetme app.  Chat:   * <https://www.pubnub.com/blog/2015-07-15-tutorial-how-to-build-android-group-chat-application/> * <https://www.quora.com/Which-is-the-best-Android-API-to-develop-a-chat-application> * <https://github.com/AppLozic/Applozic-Android-SDK>   Twitter API:   * <https://dev.twitter.com/node/1180/backlinks> * <https://dev.twitter.com/overview/api/twitter-libraries>   Google maps:   * <https://developers.google.com/maps/documentation/android-api/start>   Lactation & location distance:   * <http://stackoverflow.com/questions/21762293/run-gps-as-background-service-and-send-coordinates-to-web-server-php> * <https://developers.google.com/maps/documentation/distance-matrix/intro> | |
| Proposed Approach: To reach the solution for this app we need to implement an android app which will have interfaces for users to interact with using friendly and easy to use GUI in order to make it easy to navigate through the app using Android studio. The app will interact with web server which in this case will be implemented using python. The server will have the location engine what will receive coordinators from users app and analyse those coordinators depending on the user group and distance through the APIs centre between the server and the app. As well as, implementing a database that will interact with the app through the server in order to store, analyse and view the relevant information for each user. On the same time the server will have the news analysis centre which will collects news from twitter and analyse those tweets on the server and post the to the app. | |
| Deliverables:  |  | | --- | | * Research & Identify current technology: * Research all available technologies and decide what exact technology should be used. * Research all relevant technologies and analyse differences. * Design: * Software development model. * Design user’s interaction. * System architectures. * Implementation: * Start implementation the web server, Database and mobile application. * Testing: * Decide testing methods and apply them to the system. | |  | | |
| Technical Requirements: I would use the following requirements:   * Android studio to build the android App. * Web server that using either python, PHP or Java. * Database implementation using MySQL. | |

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| **Project**  Title:  Student:  Description (brief):  What is complex in this project:  What technical architecture was used  Explain key strengths and weaknesses of this project, as you see it. | |
| Proposal Sign off:Lecturer Comments | |
| **Student Signature** | **Date** |
| **Lecturer Signature** | **Date** |