

HARAMBE SOFTWARE

REQUIREMENT ANALYSIS REPORT of PLUS ONE

NAME:
SURNAME:
ID:
GROUP ID: 3

1. Introduction

- a. Project Title:** The project name is Plus One. Shortly represented as “+1”.
- b. Project Definition:** Our project is a location-based Android application which simply aims to aid the people who may want to help each other. It allows users to be a "plus-one" in order to end an indecision. Users are able to create polls or participate in other polls which are created by the other people around them.
- c. Project Goal:** We aim to provide social environments where people can help each other by sharing their opinions on the questions which are asked by the people nearby.
- d. Project Scope:** The project will be completed in eight week of the semester. The project includes creating polls by registered users in specific areas. Registered users can comment and vote polls. There are some categories for polls like general, entertainment, fashion, sports and technology. More categories may be inserted in following versions.
- e. Application Areas:** There is no specific area for using our application. It is for anyone who feels undecided about anything and wants to ask opinions of other people. For example; the application may be used for the user-centered surveys of corporate companies, or it may be used by a teenager who can not decide what to wear today. Also the data collected by the application can be used on many research areas.
- f. Background:** There are many applications about polls on the Android market. Our biggest feature that separates us from those applications is the locality and the customizations. In addition to generating simple polls, users are also able to set a range, vote count, poll type etc. so that they can generate their more advanced and unique polls. Moreover, users will get recommended polls about their interests as they participate the polls.

2. Team Organization

Alparslan ÇELİK:	API
Alperen KIRIMER:	Android
Furkan KONYAR:	Maps
Gizem FİTOZ:	Android
İsa Mert GÜRBÜZ:	API, Android
Kerem ÇALIŞKAN:	Android
Kerem ÖZGEN:	Maps
Satuk Buğrahan ÖZTÜRK:	UI/UX
Yücel TERLEMEZOĞLU:	Android

3. Project Schedule

1. Week
 - a. Database design for server side
 - b. Android application structure design
 - c. UI design
 - i. Login page
 - ii. Sign up page
2. Week
 - a. API implementation
 - i. Information retrieval
 1. Basic user information
 2. Basic poll information
 - ii. Comment system design
 - b. UI design
 - i. Drawer view
 - ii. User information page
3. Week
 - a. API implementation
 - i. Improving user and poll information retrieval
 - ii. Improving comment system
 - b. UI Design
 - i. Poll page
 - ii. Comments page
 - c. Android
 - i. Integrating API system
4. Week
 - a. API implementation
 - i. User registration system
 - ii. Implementing OAuth
 - b. Android
 - i. Integrating API system (Login with OAuth)
5. Week
 - a. API implementation
 - i. Poll management system (Deleting/creating)
 - ii. User types
 - b. UI Design
 - i. Poll creation page
 - c. Android
 - i. Integrating API system
6. Week
 - a. API implementation
 - i. User rank system
 - ii. Category system
 - b. UI Design
 - i. Completing the user page
 - ii. Category page

- c. Android
 - i. Integrating API system
- 7. Week
 - a. UI Design
 - i. Application settings page
 - ii. Maps view
 - b. Android
 - i. Implementing application settings
 - ii. Implementing map system
- 8. Week
 - a. API implementation
 - i. Notification system
 - b. UI Design
 - i. Activity stream page
 - c. Android
 - i. Implementing an Android service for notification system

4. Process Model

We chose agile process model because, we think that fast and flexible process increases productivity. In our project, we should anticipate incoming project changes and after that we should make quick-course corrections based on stakeholder feedback and get rapid feedback from each version.

5. System Requirements

a. Functional Requirements:

In the application, there must be two types of users. Those are end users and moderators. There must be four levels for end users; first level users must be able to create local polls in a specific range, second level users must be able to create local polls with a longer range, third level users must be able to create local polls and add photos to that polls. Their range is longer than second level users' polls, fourth level users must be able to create worldwide polls and add photos to that polls. Their range is infinity. User levels are determined by filling required information by the application, commenting on polls, voting on polls. Moderators must be able to delete comments and polls in addition to the end users' features. Lastly, in the application users must create polls or multiple choice questions. Polls must have location information so people can find polls nearby. Also users must be able to vote on polls, comment on polls, comment on specific poll options.

b. Non-functional Requirements:

i. Performance: The android application must be responsive to user moves. The transaction of pages must be flawless. In order to do that the server side application must respond to the Android application quick as possible. Server side response time depends on the user count. So the bandwidth required by server depends on the user count.

ii. Scalability :Our system currently works on MySQL database but thanks to the MVC pattern and Laravel framework, it can be easily replaced with another database system in order to fulfill our needs.

iii. Security : There is a system of user registration. Only users can create and see the polls. Also, there are moderators. Moderators are able to delete comments/polls but users cannot. Users cannot see each others private informations.
Also, the database will be always active and all real time changes will be stored on the database.

iv. Maintainability: Our mobile application was written in Android platform.Users who want to use android application, Android 5.0 or higher Android versions.

v. Usability: To accomplish better user experience, we are using material design.

vi. Availability: There is no specific time area to be able to run process. If the users have an internet connection, they can use all the features of application. Also, besides of the internet connection, if GPS is on, user location can be determined more accurately.