Requirement analysis

1. **Project introduction**
2. Purpose of the project

This document will detail the requirements for the proposed mobile application. It will analyze and examine the scope of the project, its requirements and the constraints for this project.

In the modern society, the mobile platform has changed a lot. More and more advance techniques and methods were used in this special area. the applications and software in mobile platform becomes popular. This kind of current situation has made the society convenient. Different software applications had made our life beautiful. When people face the problem, they intend to solve the problems by using smart phone as soon as possible. our project is augmented reality navigation and it will be used in indoor and outdoor so that helping user find their destination.

1. Scope of project

Our project that is a kind of augmented reality navigation will help people who does not familiar with their current position to find their destination especially for students on campus.

To help students deal with the emergency situations and to give users a better solution this project is looking at the accuracy and practicality. As a result, efficient functional requirement and allocation of resources are indispensable in increasing user scarification. Our project will focus on:

* User experience
* Accuracy of project
* Satisfied user interface

1. Objectives and success criteria of the project

Because uncertainty type of users and accuracy of data resources, the project will mainly focus on the students on campus and the navigation scope will center on campus.

The success criteria of project are:

1. Whether functional and non-functional requirements were finished.
2. Whether this project is easy to operate.
3. Whether this project basic platform design.
4. Software development platform requirements and develop tools
   1. Development platform
      1. This project must be used in Android platform
   2. Development tools
      1. Developing in Android studio
      2. Oracle
      3. Apply for Google map license
5. **Current system**
   * ….
6. **Propose system**
   * Overall
7. Finished basic functional requirements
8. Easy and convenient user interface
9. Adequate testing
10. Acceptable error rate
    * Non-functional requirement
      + Accessibility
      + Capacity, current and forecast
      + Compliance
      + Documentation
      + Disaster recovery
      + Efficiency
      + Effectiveness
      + Extensibility
      + Fault tolerance
      + Interoperability
      + Maintainability
      + Privacy
      + Portability
      + Quality
      + Reliability
      + Resilience
      + Response time
      + Robustness
      + Scalability
      + Security
      + Stability
      + Supportability
      + Testability
      + User interface
      + Human factor
      + Documentation
      + Hardware consideration
      + Performance characteristics (性能特点)
      + Error handling and extreme conditions
      + Quality issues
      + System modification
      + Physical environment
      + Security issues (maybe not, without login, do not need users’info)
      + Resource issues
    * Functional requirements

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* + System model
    - Scenarios
    - Use case model

…. They are important

* + - Object model
      1. Data dictionary
      2. Class diagrams

Important

1. **Reference**
2. **Glossary** 
   * Mobile application
   * Functional requirement
   * Non-functional requirements
   * Graphical user interface
   * UI design
   * UX design ….
   * IDE
   * GPS
   * API