**INTRODUCTION**

In this project proposal report, our aim is to explain and illustrate the digital application distribution app that we will implement. This report will describe the purpose of our project, the overview of the project, the requirement of the project including both functional and nonfunctional requirements, the limitations and contraints of the project, and in the end an Entitiy-Relationship (E/R) diagram to illustrate how the project will be designed.

The purpose and the overview of the project will explained in the Project Description chapter. In this chapter, we will describe the application system our team is proposing, why we use database to implement such a system and how we will apply the concept of database in our application.

The Requirements section which will be divided into two subsections, Functional Requirements and Nonfunctional Requirements will explicity define as stated in the name of the sections, the functional requirements and nonfunctional requirements of the system. The functional requirements are the requirements that describe the actions of a system relating to particular conditions. The nonfunctional requirements are requirements that describe the behavior of the system in general and contraints that affect its performance or process.

The Limitations section will list all the restrictions and boundaries of the application. These restrictions are specific restrictions on what user can or cannot do.

In the end, we will illustrate a conceptual design which will be an E/R diagram to summarize the essential design of the application.

**PROJECT DESCRIPTION**

The key idea is to implement a web based system that allows users to download applications to their devices. Apple’s App Store or Google’s GooglePlay are examples to such systems.

The system allows its users to be able to comment on the applications and rate the applications they have downloaded. Every user is required to meet minimum specifications that is set by each application they want to download. Users are required to set up an account in which they will be able to perform any action related to the system.

There two specific users that have additional features, developer and editor. A developer can request an editor to publish an application to the system. The editor has the ability to either approve or deny the request. Features of the system will be listed and explained in more detail in the Functional Requirements section of the report.

The project will be implemented with SQL standart language.

**Why Database Is Used in the System**

Database is a stored collection of data. Our system’s most crucial purpose is to be able to save the data to be able to distribute it efficiently and systematicly. Some persistent data management has to be done in order to achieve that purpose. Hence, database is the most beneficial solution.

The system has to continuously save all the account information of a user, all the attributes of an application and the application itself, all the settings bound to a user, all the comments and rates of an application, etc.

**How Database Is Applied to the System**

Our database will provide the users the access of various applications. Each application can be searched through its name. The database will also provide a collection of comment data of each application which the users can see, read and decide whether they want to download the application according to the comments.

The database is also essential with saving the account information of each user so that the users will have the ability to access their information, modify it or look through their downloaded applications.