**SOFTWARE REQUIREMENT ANALYSIS REPORT**

**For**

**SPHOORTHYS PROJECT BOARD**

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1. **INTRODUCTION**
   * 1. **Purpose**

The purpose of this document is to state the various software tools and the platforms and the technologies used in the project.

* + 1. **Product Scope:**

The product is a software application which is accessed from a web browser and also using an android appwe will tend to display the project’s information completed by the seniors just by scanning the logo of the respective project   
this displays the project’s overview, achievements, videos, photos and contacts of the people who did the project if the respective information available.  
This would decrease the usage of paper and also makes it more digital project.

* + 1. **Intended Audience and Suggestions**

This application is mainly to provide a basic idea of the projects being done by students. This is mainly applicable to the students and facilities who are studying in the Sphoorthy Engineering College but can also accessed by the others using our designed website. This helps to access our site’s information to anybody

1. **General Description**

This system is designed to be a facility for a simple unified system to provide the access the information about the previously executed systems in our college. the education institutes try to do various projects with students containing different platforms, technologies and tools etc. As time goes by many ideas being executed where this data can also be helpful to the coming students which will give as reference and also used them to give further extensions. Hence we are here to develop a proper system to fulfill the above requirements.

* + 1. **REQUIREMENT ELICITATION or REQUIREMENT GATHERING**The practice of collecting the requirements of a system from users, customers and other stakeholders. The practice is also sometimes referred to as "**requirement gathering**".it will require users to have access to a web browser on their workstation computer. Here we can also make use of the android app to access that information

1. **SYSTEM INTERFACE:**

The System interfaces required on the system server are the following:

* Internet connection**,**
* Database connection to the database containing image targets, their respective graphics and also information about the projects
* A web server and website to deploy our website and be accessible at any time.

1. **USER INTERFACE**

All user interfaces other than interaction about projects through a web page or by AR app.

Here the user can use his/her own system or our android app (which needs an android phone above KitKat version) to use our data.

* + 1. **Product Function.**

The major functions of this projects include

* Display the ideas executed
* Give an abstract view about each project
* Classify the projects based upon the platforms or technologies used
* Provide the available resources for adding a project into web
  + 1. **Constraints**

In order to get the required output, the user must have the internet connection

1. **SPECIFIC REQUIREMENTS:**

This section specifies the detailed requirements which the system shall meet.

* + 1. **USER REQUIREMENTS**

1. Mobile phone (Android Above 4.4 version)/ Web Browser
2. Internet connection
   * 1. **SOFTWARE REQUIREMENTS**

|  |  |
| --- | --- |
| OPERATING SYSTEM : | Windows 7 or above 64 bit only |
| COMPUTER LANGUAGES : | C#, HTML, CSS, JS |
| TOOLS USED : | * Unity 5.3 or above * Browser * WIX * Vuforia (above 6.2) |
| BACKEND : | * WIX Database |
| ADDITIONAL SOFTWARES  REQUIRED : | * Java JDK (above 8) * Android SDK (above 18) |

* + 1. **HARDWARE REQUIREMENTS**

|  |  |
| --- | --- |
| PROCESSOR(CPU) : | Recommended Intel Core i5 |
| GPU : | Graphics card with DirectX9 or above |
| HARD DISK : | 7 GB or above |
| RAM : | 4 GB Recommended |
| APP REQUIRMENT : | Above 150 MB |

* + 1. **FUNCTIONAL REQUIREMENTS**
       1. Mobile phone (Android Above 4.4 version)/ Web Browser with Open GS above 3.0Internet connection
       2. While scanning, if Logo is present in database display respective graphics
       3. Display the list of projects done in a web browser
    2. **NON FUNCTIONAL REQUIREMENTS**

1. Maintenance
2. Storage Availability
3. Internet
4. Accessibility