

# System Design for Flick Picker

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# 1 Revision History

Date	Version	Notes
January 18	1.0	Added content to section 6.4, some potential content to 6.1

## 2 Reference Material

This section records information for easy reference.

### 2.1 Abbreviations and Acronyms

symbol	description
Flick Picker	Explanation of program name
<a href="#">[... —SS]</a>	<a href="#">[... —SS]</a>

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## 3 Introduction

[Include references to your other documentation —SS]

## 4 Purpose

[Purpose of your design documentation —SS]  
[Point to your other design documents —SS]

## 5 Scope

[Include a figure that show the System Context (showing the boundary between your system and the environment around it.) —SS]

## 6 Project Overview

### 6.1 Normal Behaviour

### 6.2 Undesired Event Handling

[How you will approach undesired events —SS]

### 6.3 Component Diagram

### 6.4 Connection Between Requirements and Design

[The intention of this section is to document decisions that are made “between” the requirements and the design. To satisfy some requirements, design decisions need to be made. Rather than make these decisions implicit, they are explicitly recorded here. For instance, if a program has security requirements, a specific design decision may be made to satisfy those requirements with a password. —SS]

#### 6.4.1 Connection Between Authentication Requirements and Design

For email and password authentication, the user’s email and a hashed form of their password are stored in the database. Upon login request, the inputted email and password will be compared to the pairs in the database and the login will either succeed or fail depending on whether a match is found.

Google and Facebook OAuth will provide authorization and an email to Flick Picker which will have / create an account with this email. If an account with this email already exists using OAuth, the user is logged in successfully. If an account using the previous method (email and password) exists, the user will be prompted to login using their email

and password as above. If an account with this email does not exist, the user will be logged in and a new OAuth account will be created. They will then be brought to the new user page (creation of username, preferences, etc.).

Upon clicking the logout button, the user will be brought to the login screen and their token is removed.

#### **6.4.2 Connection Between Profile/Group Requirements and Design**

#### **6.4.3 connection Between Recommendation Requirements and Design**

### **7 User Interfaces**

[Design of user interface for software and hardware. Attach an appendix if needed. Drawings, Sketches, Figma —SS]

### **8 Design of Communication Protocols**

[If appropriate —SS]

### **9 Timeline**

[Schedule of tasks and who is responsible —SS]

## **A Interface**

[Include additional information related to the appearance of, and interaction with, the user interface —SS]

## **B Mechanical Hardware**

## **C Electrical Components**

## **D Communication Protocols**

## **E Reflection**

The information in this section will be used to evaluate the team members on the graduate attribute of Problem Analysis and Design. Please answer the following questions:

1. What are the limitations of your solution? Put another way, given unlimited resources, what could you do to make the project better? (LO\_ProbSolutions)
2. Give a brief overview of other design solutions you considered. What are the benefits and tradeoffs of those other designs compared with the chosen design? From all the potential options, why did you select documented design? (LO\_Explores)