

Software Design Document

Servo Pay Mobile Application

Team Members

Name	Task
Daniel Gimpelman	Google Sign-In, Authentication, Google Calendar Code Interface, Web Server (TBD), GUI Design Overseer
Rinat Oz	Database connectivity (TBD), GUI Implementation, Android Development

All members are tasked with integration of the three sections of the application.

1 Introduction

This introduction provides an overview of the student recreation Servo Pay App. This includes Scope and target audience.

Document Overview

This document provides a description of the technical design for the Student Recreation Servo Pay App. The purpose of this document will describe the technical details of the App. This document provides an overview of the different functions of the app.

Document Scope and Purpose

This document is targeted to technical staff

- Development Team.
- Support Staff.
- Final project Instructor.
- University staff and Computer Science faculty.

System Development

- Development: Android Studio, PyCharm
- Database: MySQL

Design Approach

The design approach used here is a modular approach where each team member can work on separate segments of the program; with an interface to be able to plug everything together near the end of development. Although this approach cannot be exactly followed, it is the core method that is being used during development.

We believe that this method of approach is better than other since each member does not mix code and the possibility to compilation errors is far rarer.

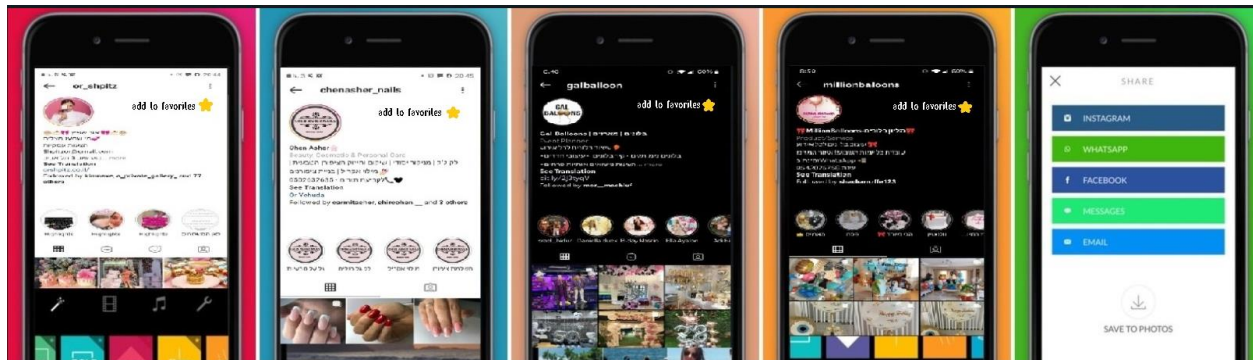
Data Flow

The Servo Pay App will communicate using Java ODBC to a MySQL Database server and will use this database to manage and keep track of the users and Service providers. The Algorithm will be used in conjunction with the app to manage matches between the service providers and his costumer and will be updated alongside the database so that app users will be able to search for service providers.

UI Design

The UI design is created by code with different element provided inside of Android Studio. The code can easily be changed or modified to allow quick and easy changes to the UI design. This helps the UI to communicate with the actual code.

Screenshots and Future planned Design



2 Modules

- **Searching after a service giver:**

Description: The option to search for service giver by topic, category and in more advanced stages filtering searches for better match accuracy.

Purpose: The project aim is to provide the consumer a service provider in the shortest time possible with ease.

User problem:

- Find the correct matchup algorithm between the consumer and the service provider.
- Not enough service providers available.

User value: When the costumer is looking for a service, the platform should provide him with the wanted result.

Assumptions: We assume that the project would have well enough userbase to meet our standards.

Not doing: The searching page does not provide the consumer with big corporations; the project shows small businesses and service providers.

Acceptance criteria: Upon searching for a needed the service by the consumer we are obligated to provide the consumer with enough appropriate choices as well as to keep the services that the project provides as high as possible.

- **Provider Profile Page:**

Description: The project will let the service provider to create an profile page where he will provide info about his service including written data, videos and more content to the provider desire.

Purpose: Our project aims to provide the service giver the tools to reach to costumer with a dedicated platform easily.

User problem:

- Show only the needed information on provider page.
- Create a template that represents the needed information from the service provider in the best possible way.

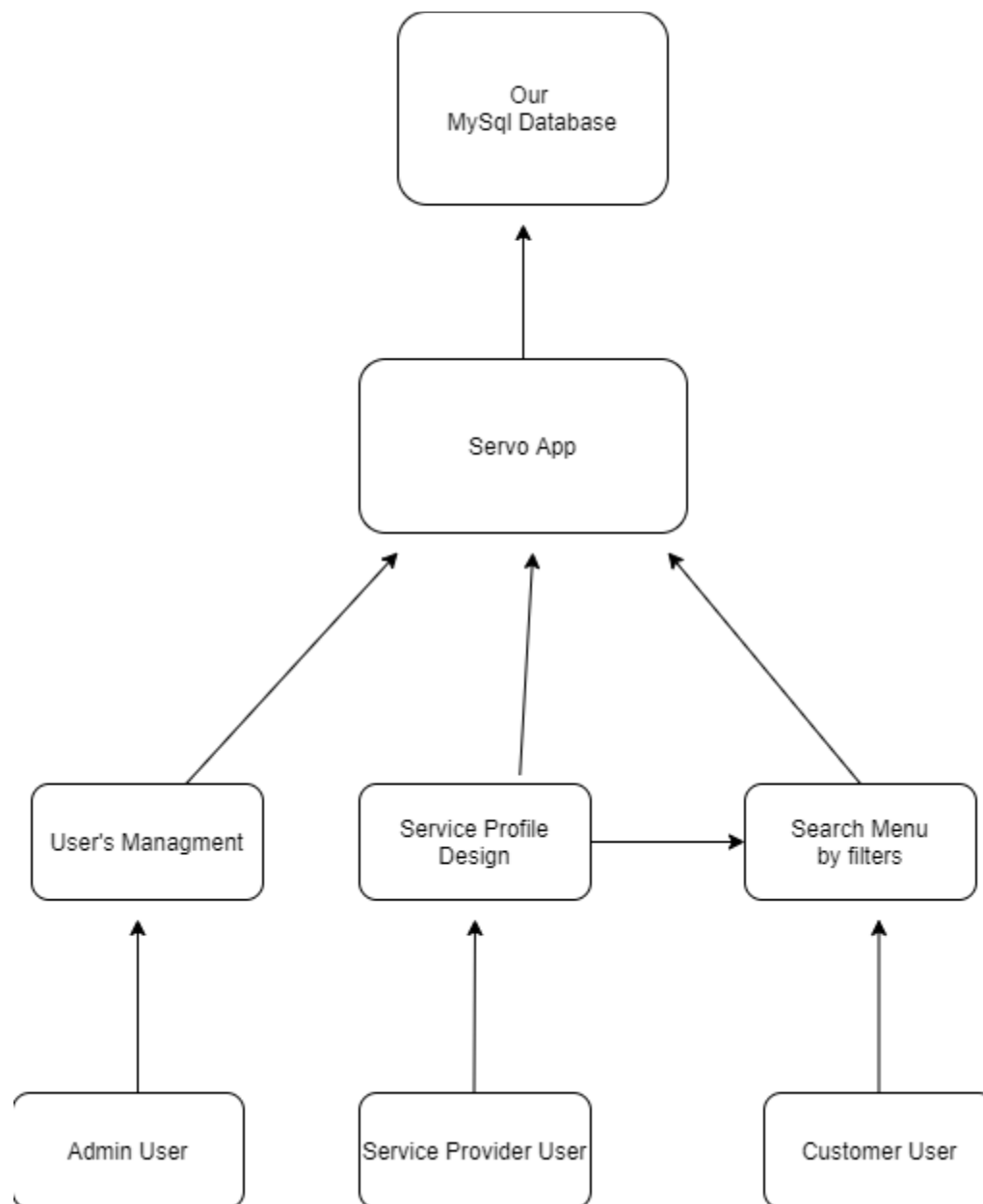
User value: Provide the service provider a way to start his way into the corporate world, or provide an individual with costumers as per what the service giver demands.

Assumptions: We assume that the service giver profile page template that we have for a profile page suits the service giver.

Not doing: The profile page does not let the consumer automatically book the service; this feature is available upon request by the service provider.

Acceptance criteria: Upon creating a profile page, we need to make sure that the information inside the profile page is correct, organized and documented well.

Application usage flow:



More extended view on Application workflow:

