Handy Booking App

Project Proposal

1. Introduction

Handy Booking App will try to build a customer to customer (C2C) platform, which allows tradies to post their job on the platform and then clients can search them online. The platform was decided to address the problem that it is hard for clients to find outstanding tradies, while excellent tradies cannot get order easily.

This is a **Level Three** (Commercial) project, and the requirements are listed as follows:

Level one: Simple Practice

- manage all tenants, products, services .etc with CRUD functions
- simple relationship between tenants, products, services .etc
- build up database, backend api server, front-end single page application
- request and response api calls with right format
- implement cloud tech: AWS/Azure
- good name convention(Avoid using one, two ,three, a, b, c etc..)
- clean code(USE only tab or space)
- agile teamwork
- deal with code conflicts

Level Two: Prototype

- All functions from Level One
- Supports Login and register functions
- Supports JWT, OAuth
- Supports authentication
- Complex logic prior to Commercial
- Ability for deployment to cloud
- Has swagger etc. api tools
- Design pattern considered
- Clean and professional UI/UX design
- MVC

Level Three: Commercial

- All functions from Level Two
- Multiple permissions support
- Multiple authenticated tenants support
- Meaningful attributes and logic
- Different organizations, departments
- Transaction, logging, history, alert supports
- Error handling
- Linting and code standard
- Unit test, e2e test
- Google Analytics suite integrated
- Microservice / serverless / other structures considered
- Docker CI CD

2. App Users

Clients

Clients are the people who use the app to find the service that they need.

Profile

- Email
- Name
- Gender
- Language
- Address
- Mobile
- Avatar
- Introduction

Functions

- search tradies
- view tradie details (name, gendar, avatar, suburb, services, price, mobile, email)
- book services
- user could login the app
- manage and view history of bookings/orders
- update profiles

- change password or reset password
- Review and rate bookings

Tradies

Tradies are the people who offer and post their services on the app, wishing to find more clients.

Profile

- Email
- Name
- Title
- Gender
- Age
- Address
- Language
- Avatar
- Professional Years
- Skills and brief description
- Vocation
- Bages - Award or verification (optional)
- Introduction

Functions

- check bookings
- arrange bookings
- Confirm bookings (tradie provide offer and clients need to confirm) and finish booking (change booking status)
- post their service by category
- update profile

3. Work Flow
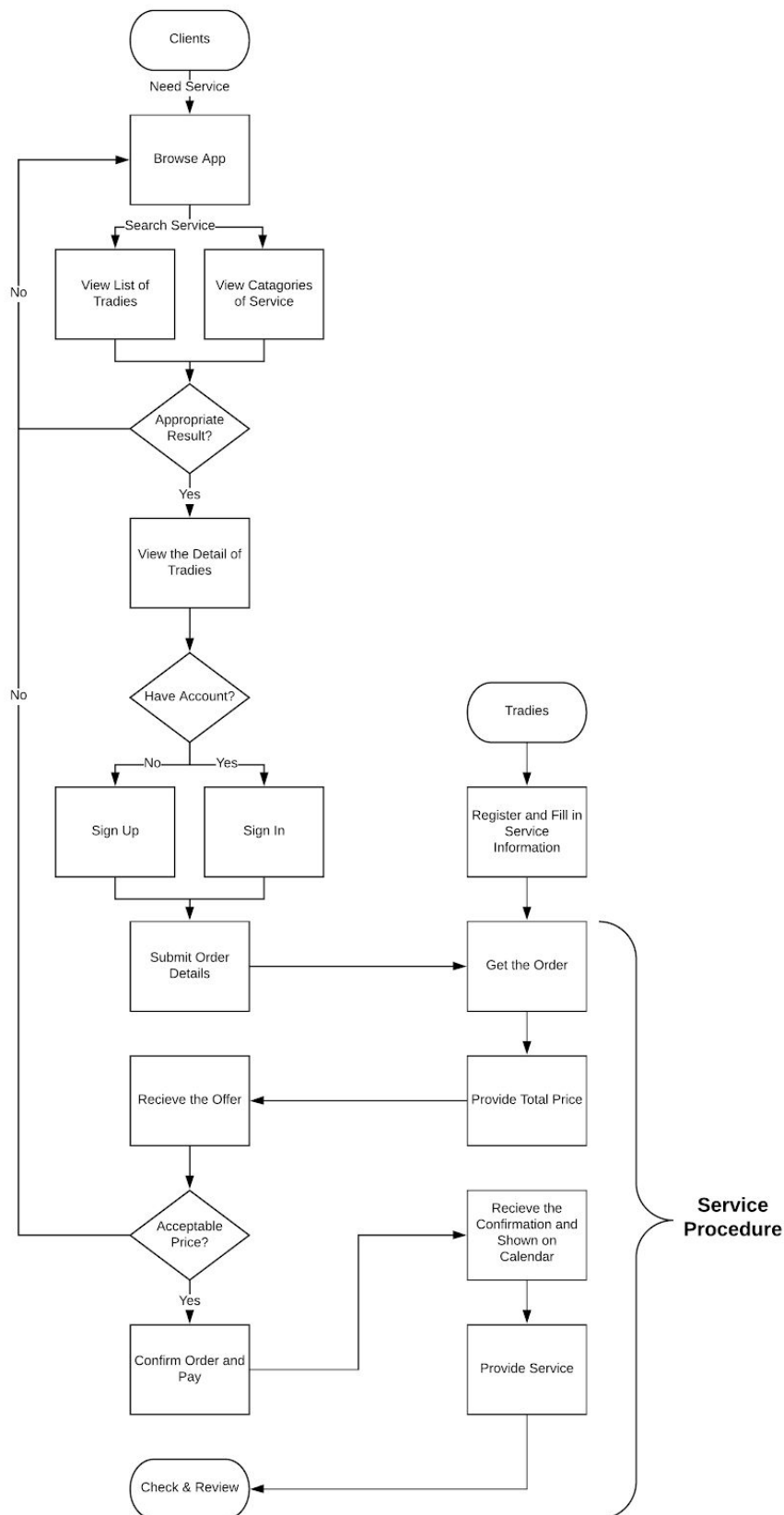
4. App Structure

Home Page

- Navigation
- Search bar
- Introduction
- Testmonial
- Top Categories
- Footer

Service Categories

- Card of service label
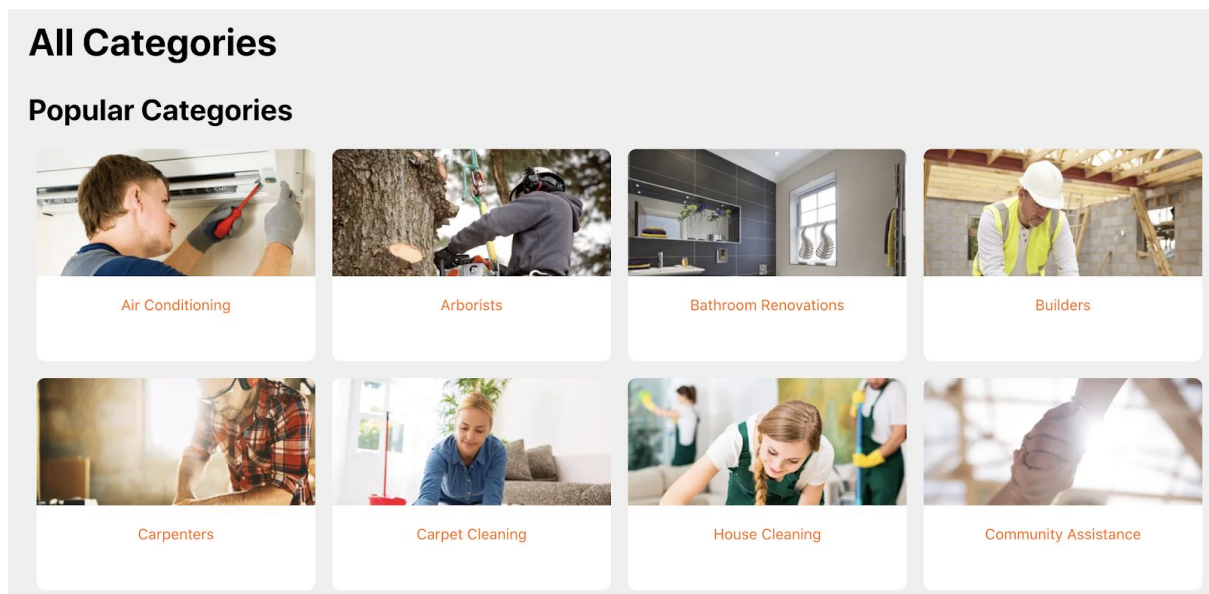
source: [Change the way you tradie](#)

List of Tradies / Search Results

- Card of tradies

Service Detail

- Fill in order details
- View tradie's information
  - Handyman's profile
    - Name

- - ■ Avatar
    - ■ Introduction
    - ■ Language
    - ■ Average scores/reviews
  - ○ recent works
  - ○ Comments

Sign In / Sign Up

Source: Login to hipages - Australia | hipages.com.au

User Profile

Clients

- Update profile (include change password)
- View bookings list
- Notification centre: receive job status updates
- Accept the offer

Tradies

- Update profile
- View order list
- Notification centre: receive job status updates
- Offer the price

5. Tech Stack & Other Tools

- Font-end: React
- Back-end: Node.js
- Database: MongoDB
- Version control: Github
- Agile tool: Trello

6. Division of Labour

Font-end

- Harry*
- Jinpei
- David
- Ian
- Yuyang*
- Zhen Yang*

Back-end

- Jinpei*
- David*
- Ian*
- Yuyang
- Zhen Yang

(* means prefer area)

Other

- Git manager: Jinpei
- Scrum master: Ian

7. References

** Reference project name: goTradie, iHandy, taskify, Tradify, getHandy, getTradie, getClean, Houzz

** Reference website and apps: Gumtree, Airtasker, hipage, Handyapp

** The app could specify one or multiple industries, reference: cleaning, repairs, builders,handyman, plumbers, pest control, carpenters, electricians, removalists