

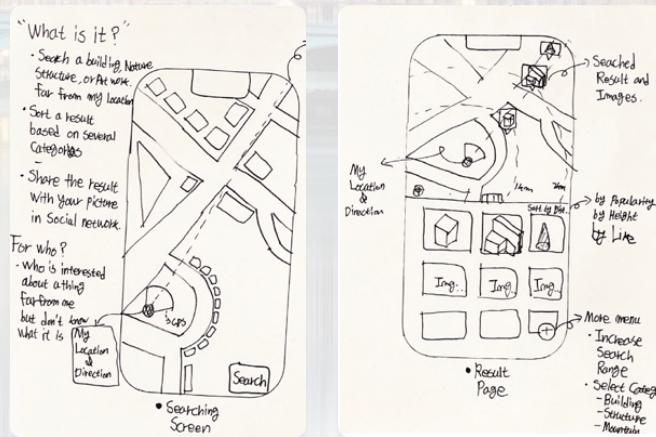
# Discover Hidden Gems with Skylark

Skylark empowers you to explore your surroundings and uncover the hidden stories behind the buildings in your city. With our easy-to-use app, you can discover fascinating history and breathtaking architecture you never knew existed.



# How Skylark Started

The idea for Skylark started during a Crazy 8 session where students were brainstorming new apps. The idea received many votes and was developed further, leading to the creation of Skylark.



# Skylark's Primary Goal

Skylark's primary goal is to provide seamless, engaging, and accessible urban exploration, fostering a deeper connection between users and their surroundings, and enhancing their local knowledge of the architecture and history of their community.



## How Skylark Works

Skylark uses your mobile device's GPS and sensor to identify and help you explore unknown buildings within your vicinity. The app searches for all buildings in your eyesight and a preset radius, giving you the option to sort by distance or popularity. So, the fascinating history and breathtaking architecture are just a few taps away.

# Who is Skylark For?

## 1 Urban Explorers

If you're one of those individuals who enjoys exploring the city, Skylark is the perfect fit for you.

## 3 Tourists

If you're new to the city or looking for unique travel experiences, use Skylark to discover hidden gems.

## 2 Architecture Enthusiasts

Skylark offers a unique view of history, culture, and architecture for those interested in design and architecture.

## 4 Curious Individuals

Skylark is perfect for you if you have a thirst for knowledge, love to explore, or are curious about your surroundings.



The Flutter logo is displayed on a blue background. The word "Flutter" is written in a large, white, sans-serif font. Above the text, there is a graphic element consisting of several overlapping blue rectangles of different shades, creating a sense of depth and motion.

# Flutter

## Tech Stack

The app is built entirely with Flutter, allowing me to develop high-quality apps for both iOS and Android quickly and reliably. With Flutter's hot-reload feature, I could experiment with new ideas and make changes on the fly.

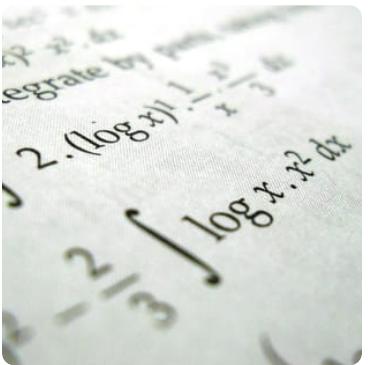
 models colours.dart places\_model.dart screens HomePage.dart SearchResultDisplay.dart SearchResultGrid.dart services geometry.dart maps\_getlocation.dart maps\_places.dart read\_utility.dart sort.dart main.dart

# Easy maintenance

## The Benefits

The method offers easy maintenance, separation of concerns, and increased flexibility, which ultimately leads to a highly optimised and functional app.

# Geometry Library



## The Power of Geometry

Skylark's personalised geometry library utilises the Haversine formula with WGS84 coordinates to calculate geometry, rotate points based on a point, calculate distance, and verify whether a point is inside a polygon.



## Optimising Performance

The library has been specifically designed for resource and speed optimisation on mobile devices, ensuring a smooth user experience while exploring.



## Developing Personalised Libraries

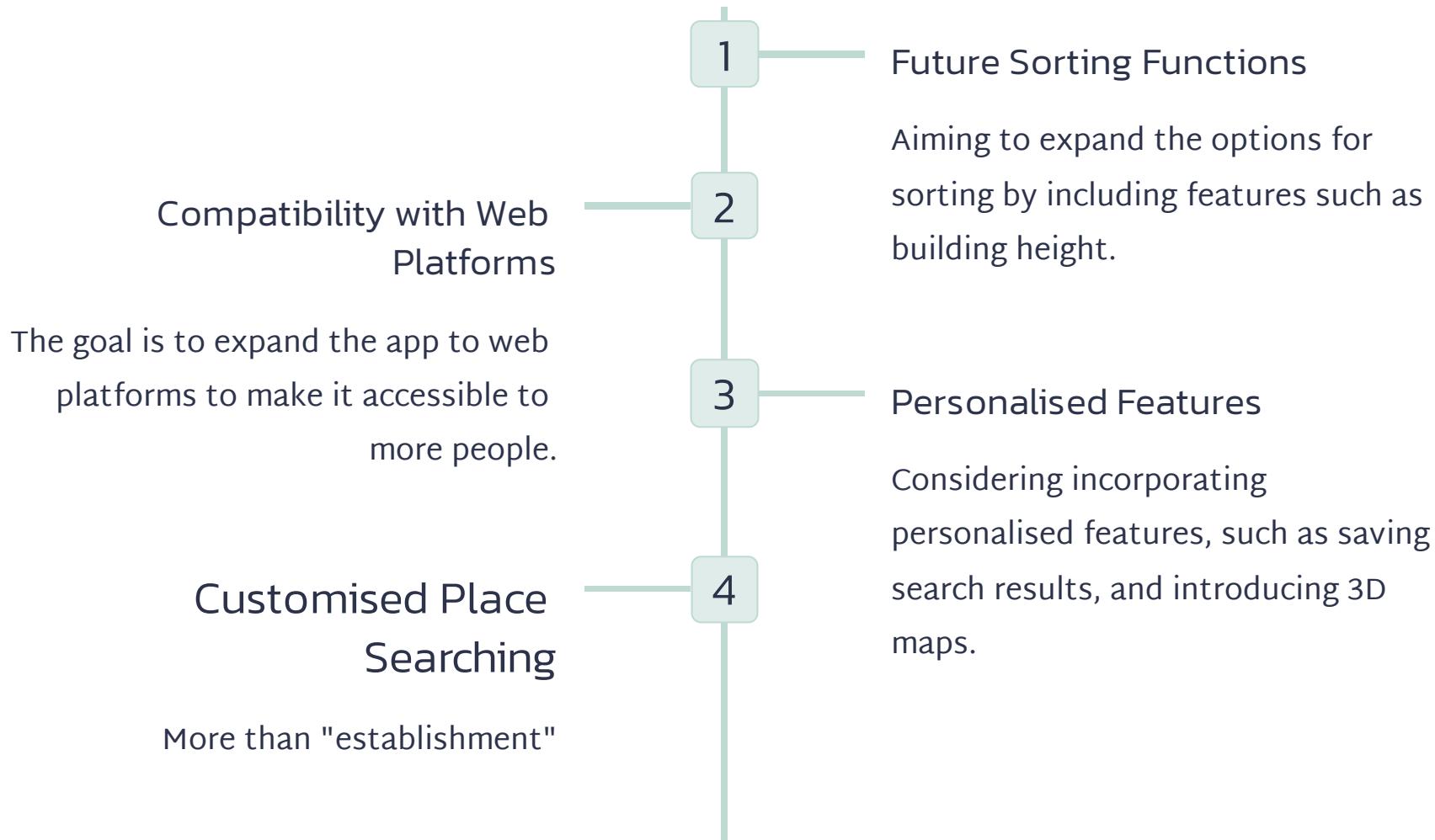
The development of personalised libraries enabled Skylark to offer enhanced and robust features, taking the app to a new level of functionality.

# Designing Skylark

Skylark is designed based on the Material Design colour system (ColorScheme), giving it a sleek and modern look. I also created a unique logo that reflects the spirit of exploration and discovery that our app is all about. Our goal is to make Skylark both beautiful and functional, so you can enjoy your city to the fullest.



# The Potential of Skylark



# Demo

[Lionel-Lim/Skylark: Skylark is a flutter mobile application that helps users identify and discover unknown places around them. \(github.com\)](#)

**Lionel-Lim/Skylark**

Skylark is a flutter mobile application that helps users identify and discover unknown places around them.

Contributors 0 Issues 0 Stars 0 Forks 0



**GitHub**

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