



# BilFind

# Developer Manual



# BilFind

# Source Code

## Obtain Source Code

Our source code can be found at: <https://github.com/CS319-23-FA/S3T11-bilfind>

To view and edit our source code, open the git bash terminal and write the following:

```
git clone https://github.com/CS319-23-FA/S3T11-bilfind.git
```



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Directory Structure

# Frontend Directory Structure

Directory	Contents
lib/constants	Constant values such as app colors, error codes and enums
lib/models	Models for representing objects (post, user, message etc.)
lib/screens	All the screens in the website, contains screen layouts and related widgets
lib/services	Service functions for communicating with backend through models
lib/utils	Various util functions for routing and regex patterns
lib/widgets	Widgets that are used several times such as AppBar, SideBar and PopUps
Lib/main.dart	Main file that the project initiliazes.



## Backend Directory Structure

Directory	Contents
src/clients	Includes client-specific functions such as create, update, and delete
src/controllers	Includes request methods for each client of the backend structure
src/models	Includes MongoDB database model files that can be created, edited, and deleted from the database
src/routes	Includes route files that direct to controller functions for each client of the backend structure
src/utlis	Includes middleware's for routes, various utility functions, and large data files to increase the maintainability of the code
src/index.ts	The main file that contains main routes, server initialization, and database connection





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Build Instructions

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- **Frontend**

Prerequisites:

Flutter, Dart

Google Chrome

First, go to the bilfind\_app directory. Write "flutter pub get" in the terminal to install the packages. Then, write "flutter run -d chrome" to run the application on Google Chrome. "-d" stands for debug.



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## Build Instructions

- **Backend**

Prerequisites:npm

Nodejs

TypeScript

First, go to the backend directory. Write "npm i" in the terminal to install the packages. Then, write "npm run dev" to start the server.

There is a .env file we do not share in our repository. It includes "PORT" for the local server port. "MONGODB" for the MongoDB database url."HOST\_MAIL" for the application's e-mail sender. "HOST\_MAIL\_PASSWORD" for the application's e-mail sender's password. "STORAGE\_ACCESS\_KEY" and "STORAGE\_SECRET\_ACCESS\_KEY" are the credentials required to connect to the Amazon S3 bucket provided by Digital Ocean. "SECRET\_KEY" for hashing the passwords. "SECRET\_RESET\_KEY" is for handling reset password hashes.



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