

CA - Prerequisites Document

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TITLE:

Chefs' Corner - The Chefs' Corner allows users to create accounts, log in securely, and explore a variety of recipes based on their preferences.

INTRODUCTION

The **Chefs' Corner** is a full-stack web application designed to help users **discover and search for recipes** with ease. It allows users to create accounts, log in securely, and explore a variety of recipes based on their preferences. The project is built using React for the frontend, Flask for the backend, and MongoDB for data storage.

SYSTEM REQUIREMENTS

1. Hardware Requirements:

- Processor: Intel Core i5 or higher
- RAM: Minimum 8GB (Recommended: 16GB for optimal performance)
- Storage: At least 10GB free disk space
- Operating System: Windows 10/11, macOS, or Linux

2. Software Requirements

- Node.js (v18.16.1 or later) – Required for running Angular frontend
- npm (v9.5.1 or later) – For managing Angular dependencies
- Python (3.11.9 or later) – Required for Flask backend
- MongoDB Atlas – Cloud-based NoSQL database
- VS Code – Recommended IDE
- Postman – For API testing and verification

TECHNOLOGY STACK

1. Frontend

- React (Web framework for building UI)
- Tailwind CSS (for styling and responsive UI)

2. Backend

- Flask (Python web framework)
- Flask-CORS (Handles cross-origin requests)
- PyMongo (MongoDB connector)

3. Database

- MongoDB Atlas (Cloud-based NoSQL database for storing users and tasks)

SETUP INSTRUCTIONS

1. Install Node.js and NPM

Download and install Node.js from [Node.js Official Website](https://nodejs.org/en/).

Verify installation:

```
node -v npm
-v
```

2. Install Python and Flask

Download and install Python from the [Python Official Website](https://www.python.org/).

Verify installation:

```
python --version
pip --version -
```

Install dependencies:

```
pip install flask flask-cors pymongo
```

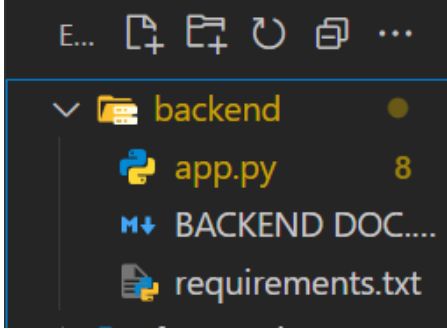
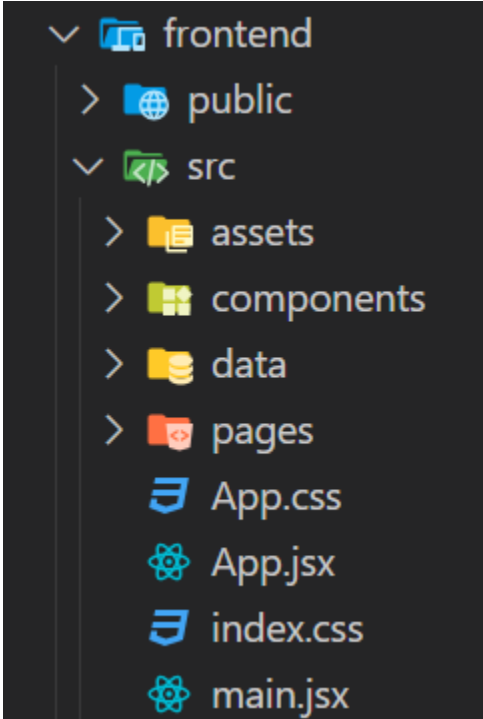
3. Setup MongoDB

Use **MongoDB Atlas** for cloud storage or install **MongoDB locally** from [MongoDB Official Website](https://www.mongodb.com/).

Setup MongoDB Atlas

- Create a cluster at <https://www.mongodb.com/>
- Create collections: users, tasks
- Connect using connection string in Flask

PROJECT STRUCTURE

Backend	Frontend
	

CONCLUSION

This document provides the prerequisites for setting up the **Chefs' Corner** project including system setup, technology stack, and dependencies. Following the instructions ensures a smooth environment for development and demonstration of the Chefs' Corner application.