## **1. Prerequisites**

## **Tools to Install**

* Spring Tool Suite (STS) for backend development (Spring Boot microservices)
* Visual Studio Code (VS Code) for frontend development (React with Vite)
* MongoDB database server installed and running locally or remotely

## **2. Download and Install STS (For Spring Boot Backend)**

1. Go to the Spring Tool Suite official website: <https://spring.io/tools>
2. Download the latest version of STS for your OS (Windows, macOS, Linux).
3. Install STS following the installer instructions.
4. Launch STS and ensure it opens successfully.

## **3. Download and Install Visual Studio Code (For React Frontend)**

1. Go to the VS Code official website: <https://code.visualstudio.com/>
2. Download the latest stable version for your OS.
3. Install VS Code by following the on-screen instructions.
4. Launch VS Code and optionally install these recommended extensions:
   * ESLint
   * Prettier
   * Vite support (optional)
   * React snippets

## **4. Clone the Project from GitHub**

Open a terminal or command prompt and run:

bash

git clone https://github.com/Akashvaddnal/ BAPPP.git

cd BAPPP

## **5. Import MongoDB Collections**

Before running the backend services, import the MongoDB collections from the JSON files inside the MongoDBCollections folder:

1. Open MongoDB Compass or the MongoDB shell.
2. Import the following JSON files into collections with these exact names:
   * customers(import from customers.json)
   * Insurers (Import from insurers.json)
   * Invoices (Import from invoices.json)
   * Policies (Import from policies.json)
   * Payments (import from payments.json)
   * TaxRates (Import from taxrates.json)

## **6. Open Project Folders**

* Open the BAPPP-Backend folder in Spring Tool Suite (STS)
  + This folder contains all your Spring Boot microservices.
* Open the BAPPP-Frontend folder in Visual Studio Code (VS Code)
  + This folder contains the React frontend built with Vite.

## **7. Configure Port Numbers (Optional)**

If you want to change the port number of any microservice:

* For all backend microservices except API Gateway, open their respective application.properties files located in src/main/resources/ and modify the line:

server.port=XXXX

* And Do modifications on API Gateway, open their respective application.properties files located in src/main/resources/ and modify the port number the registered microservice which you changed in previouse ly changed.

## **8. Setup Frontend Dependencies**

1. Open a terminal in the BAPPP -Frontend folder.
2. Run the following command to install dependencies (Vite project):

bash

npm install

## **9. Starting the Application**

## **Backend**

Start each Spring Boot microservice from STS by running their main application classes. Make sure all these microservices are running.

## **Frontend**

In the Frontend folder terminal, run:

bash

npm run dev

This will start the React frontend using the Vite development server.

## **Summary**

|  |  |
| --- | --- |
| **Step** | **Details** |
| 1. Install STS | For Spring Boot microservices |
| 2. Install VS Code | For React frontend |
| 3. Clone repo from GitHub | git clone git clone https://github.com/Akashvaddnal/MEPMS-Project.git |
| 4. Import MongoDB collections | MongoDBCollections from JSON |
| 5. Open backend in STS | Open / BAPPP-Backend folder |
| 6. Open frontend in VS Code | Open / BAPPP\_Frontend folder |
| 7. Configure ports if needed | application.properties or application.yml |
| 8. Install frontend dependencies | npm install in /Frontend |
| 9. Start backend services | Run microservices in STS |
| 10. Start frontend | Run npm run dev |

Following these steps will get your Medical Equipment Procurement and Management System project up and running locally.