**Project File Structure for PRIME TECH DESIGNS LTD Portfolio Website**

Below is a suggested file structure for your portfolio website project. This structure is organized to ensure clarity, scalability, and maintainability. It includes folders and files for both the **frontend** and **backend** components of the project.

**Root Directory**

Copy

prime-tech-designs-ltd/

├── frontend/ # Frontend code (HTML, CSS, JavaScript, etc.)

├── backend/ # Backend code (Java Spring Boot)

├── database/ # Database scripts and schema

├── assets/ # Static assets (images, icons, fonts, etc.)

├── documentation/ # Project documentation

├── README.md # Project overview and instructions

└── .gitignore # Files/folders to ignore in Git

**1. Frontend Directory**

Copy

frontend/

├── index.html # Home page

├── about.html # About Us page

├── services.html # Services page

├── portfolio.html # Portfolio page

├── contact.html # Contact Us page

├── blog.html # Blog/News page (optional)

├── css/ # CSS files

│ ├── styles.css # Main stylesheet

│ ├── bootstrap.min.css # Bootstrap CSS

├── js/ # JavaScript files

│ ├── main.js # Custom JavaScript

│ ├── bootstrap.min.js # Bootstrap JS

├── images/ # Images used in the website

│ ├── logo.png # Company logo

│ ├── profile-godfrey.jpg # Godfrey's profile picture

│ ├── profile-blessings.jpg # Blessings' profile picture

└── fonts/ # Custom fonts (if any)

**2. Backend Directory**

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backend/

├── src/

│ ├── main/

│ │ ├── java/

│ │ │ └── com/primtechdesigns/

│ │ │ ├── controller/ # Controllers for handling requests

│ │ │ │ └── HomeController.java

│ │ │ ├── model/ # Data models (e.g., for blog posts, contact form)

│ │ │ │ └── ContactForm.java

│ │ │ ├── repository/ # Database repositories

│ │ │ │ └── ContactRepository.java

│ │ │ ├── service/ # Business logic

│ │ │ │ └── ContactService.java

│ │ │ └── PrimeTechDesignsApplication.java # Main application class

│ │ └── resources/

│ │ ├── static/ # Static files (CSS, JS, images)

│ │ ├── templates/ # Thymeleaf/HTML templates (if using)

│ │ ├── application.properties # Configuration file

│ │ └── data.sql # Initial data for database (optional)

│ └── test/ # Unit and integration tests

│ └── java/com/primtechdesigns/

└── pom.xml # Maven build configuration

**3. Database Directory**

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database/

├── schema.sql # SQL script for database schema

├── data.sql # SQL script for initial data (optional)

└── ER\_diagram.png # Entity-Relationship diagram (optional)

**4. Assets Directory**

Copy

assets/

├── icons/ # Icons (e.g., social media icons)

├── fonts/ # Custom fonts (if any)

└── downloads/ # Files for download (e.g., resumes, brochures)

**5. Documentation Directory**

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documentation/

├── project\_plan.docx # Project plan document

├── requirements.docx # Requirements document

├── wireframes/ # Wireframes and mockups

│ ├── homepage.png

│ ├── about.png

│ └── contact.png

└── test\_reports/ # Test cases and reports

├── unit\_tests.docx

└── uat\_report.docx

**6. README.md**

This file provides an overview of the project, including:

* Project name and description
* Technologies used
* How to set up and run the project
* Team members and their roles
* Contact information

**7. .gitignore**

This file specifies files and folders to exclude from version control (e.g., IDE files, build folders, environment variables).

Example .gitignore:

Copy

# Ignore IDE files

.idea/

\*.iml

# Ignore build files

target/

build/

# Ignore environment variables

.env

# Ignore node modules (if using Node.js)

node\_modules/

**8. Example File Structure in Action**

Here’s how the file structure would look in practice:

1. **Frontend:**
   * The index.html file serves as the homepage, linking to other pages like about.html and services.html.
   * CSS and JavaScript files are organized into their respective folders for easy maintenance.
2. **Backend:**
   * The HomeController.java handles requests for the homepage.
   * The ContactForm.java model represents the data submitted through the contact form.
   * The ContactRepository.java interacts with the MySQL database to store and retrieve contact form submissions.
3. **Database:**
   * The schema.sql file contains the SQL commands to create the database tables.
   * The data.sql file can be used to populate the database with initial data (e.g., sample blog posts).
4. **Assets:**
   * Images, icons, and fonts are stored in the assets/ folder for easy access.
5. **Documentation:**
   * All project-related documents (e.g., project plan, requirements, wireframes) are stored in the documentation/ folder.

**Final Notes**

* This file structure is modular and scalable, making it easy to add new features or pages in the future.
* Use version control (Git) to track changes and collaborate effectively with your partner, Blessings.
* Regularly update the README.md file to reflect any changes in the project setup or functionality.