**GROUP FIFTEEN: Portfolio Builder**

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**Project Plan for Portfolio Builder Website**

**1.0 Introduction**

This document outlines the plan for building a **Portfolio Builder Website** for our Software Engineering class. The project will be completed in seven weeks.

**1.1 Project Scope**

The website will allow users to create and showcase personal portfolios. Key features include:

* **User Accounts**: Sign-up and login.
* **Portfolio Customization**: Choose templates and add content.
* **Project Display**: Show project details with images and links.
* **Skill & Experience Section**: Highlight skills and work history.
* **Contact Form**: For user inquiries.

**1.2 Major Software Functions**

* **Frontend**: Built using HTML, CSS, and JavaScript.
* **Backend**: Uses Node.js and Express.js.
* **Database**: MongoDB for storing user data.
* **Authentication**: Handled by Firebase.
* **Hosting**: Deployed on Vercel or Netlify.

**1.3 Performance/Behavior Issues**

* **Fast Load Times**: Optimize for quick page loading.
* **Security**: Protect user data with authentication.
* **Scalability**: Ensure smooth performance for multiple users.
* **Cross-Browser Support**: Works on all major browsers.

**1.4 Constraints**

* **Deadline**: Must be completed in seven weeks.
* **Resources**: Limited team members and time.
* **Tech Stack**: HTML, CSS, JavaScript, Node.js, MongoDB, Firebase.
* **Version Control**: Managed via GitHub.

**2.0 Risk Management**

**2.1 Project Risks**

* **Feature Creep**: Avoid adding extra features.
* **Technical Issues**: Problems with API integration.
* **Team Coordination**: Ensuring everyone meets deadlines.
* **Security Risks**: Protect user data.

**2.2 Risk Table**

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Probability** | **Impact** | **Solution** |
| Feature Creep | Medium | High | Stick to the plan |
| Technical Issues | High | Medium | Allocate debugging time |
| Coordination | Medium | High | Weekly meetings |
| Security | High | High | Use encryption & secure login |

**2.3 Risk Management**

* **Mitigation**: Address risks early.
* **Monitoring**: Track progress.
* **Management**: Solve problems quickly.

**3.0 Project Schedule**

**3.1 Tasks**

* **Week 1-2**: Planning & Design.
* **Week 3-4**: Frontend Development.
* **Week 5-6**: Backend Development.
* **Week 7**: Testing & Deployment.

**3.2 Functional Breakdown**

* **Frontend**: UI components, navigation, forms.
* **Backend**: Authentication, APIs, database.

**3.3 Timeline**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Week 1-2** | **Week 3-4** | **Week 5-6** | **Week 7** |
| Planning | X |  |  |  |
| Frontend |  | X |  |  |
| Backend |  |  | X |  |
| Testing & Deployment |  |  |  | X |

**3.4 Monitoring**

* **Track Progress**: Weekly meetings.
* **Use GitHub**: Version control.
* **Issue Tracking**: Manage bugs with Trello/Jira.

**4.0 Appendix**

Additional resources like API documentation, design guides, and deployment steps.