**Project Documentation Requirements**

**Team *Village***

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**INTRODUCTION**

**Aims and Objectives of the Project**

The aim of the project is to develop an application that helps combat loneliness in parents by providing a platform to connect, share knowledge, and exchange experiences about parenting.

**Objectives:**

* **Connectivity:** Create a platform for parents to ask questions, discuss, and comment back.
* **Local Events:** Provide information on local events based on parent/child preferences and age group.
* **Mental Health Support:** Offer resources and support groups for mental health.
* **Filtering Capabilities:** Enable filtering by parent status (e.g., 'I'm a dad', 'I'm a new mother', 'I'm pregnant', 'I'm childfree').

**Roadmap of the Report**

1. **Introduction**
2. **Background**
3. **Specifications and Design**
4. **Implementation and Execution**
5. **Testing and Evaluation**
6. **Conclusion**

**BACKGROUND**

The project focuses on developing an app to support parents by providing:

* **A platform to connect and share experiences:** Parents can discuss questions and offer advice through forums.
* **Local events and activities:** Customized based on parent and child preferences.
* **Mental health resources:** Support groups and resources aimed at improving mental health.
* **Educational content:** Webinars and workshops on various parenting topics.

Understanding the requirements:

* The app aims to reduce loneliness by creating a supportive community.
* Offers resources to help parents navigate the challenges of parenting.
* The target audience includes parents-to-be, new parents, and carers of babies and children.

**SPECIFICATIONS AND DESIGN**

**Technical Requirements**

* **Webpages:** Five main pages including login / registration, user dashboard, events, forum and about us (meet the team).
* **Backend:** SQL database for data management and API for interactions.
* **Frontend Tools:** Bootstrap for responsive design and Figma for UI/UX design.
* **Collaboration Tools:** Trello for project management, Miro for brainstorming, Slack for communication and Github for version control.
* **Additional Features:** Translator APIs for non-English speaking users.

**Non-Technical Requirements**

* **User Experience:** Simple, intuitive interface with considerations for accessibility.
* **Diversity and Inclusion:** Use of diverse images, inclusive language and colour scheme.

**Design and Architecture**

**Wireframes**

* 1. Homepage: User authentication.

A screenshot of a website

Description automatically generated

Login page

* 1. Sign Up – User Registration

User clicks ‘Sign Up’ below the Sign In form to create an account, leading the user to the registration process where they input the account registration details.

A screenshot of a login form

Description automatically generated

Register page

After user inputs their important details, they go on to provide further information while they are still in the registration process. Some of which may be compulsory to fill in and other fields not.

A screenshot of a login form

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Profile Creation page

* 1. User Dashboard

A screenshot of a website

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User Dashboard

* 1. Events Page: Listings of local events.

A screenshot of a web page

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Events Page

* 1. Forum Page: Platform for discussion and support.

A screenshot of a website

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Forum Page

A screenshot of a website

Description automatically generated

Forum Page

* 1. **Meet the Team**

A person and person pots

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* **UI/UX Considerations:** Consistent navigation, easy-to-read fonts, and a colour palette that is pleasing and accessible.

**Architecture**

* **Frontend:** Bootstrap for a responsive and consistent design. Figma for creating detailed wireframes and UI elements.
* **Backend:** Node.js for server-side logic. SQL database for managing user data, event listings, and forum posts.
* **API Integration:** Translator APIs to support multiple languages.

**IMPLEMENTATION AND EXECUTION**

**Development Approach and Team Member Roles**

* **Agile Development:** Adopted for iterative progress and continuous improvement.
* **Team Roles:** TO DO

**Tools and Libraries**

* **Frontend Tools:** Bootstrap, Figma.
* **Backend Tools:** Node.js, SQL.
* **Collaboration Tools:** Trello, Slack, Github, GoogleDocs, Miro.

**Implementation Process**

**Achievements**

* **Initial Wireframes and Prototypes:** Developed and reviewed for user feedback.
* **Backend Setup:** Basic structure and database established.
* **Forum and Event Listings:** Integrated key functionalities for user interaction and event information.

**Challenges**

* **User Experience:** Ensuring a seamless and intuitive experience across devices.
* **Real-time Updates:** Implementing efficient mechanisms for live interactions in forums.

**Agile Development**

* **Iterative Approach:** Regular sprints for incremental progress.
* **Code Reviews and Testing:** Frequent evaluations to ensure quality and functionality.

**TESTING AND EVALUATION**

**Testing Strategy**

**Functional Testing**

* **Objective:** Verify that all features work as intended.
* **Scope:** Includes user registration, event listings, forum discussions, and filtering capabilities.

**User Testing**

* **Objective:** Collect feedback from target users to improve usability and functionality.
* **Methods:** Beta testing with a selected group of parents to gather insights and suggestions.

**System Limitations**

* **Scalability:** Potential challenges as the user base grows, requiring efficient backend management.
* **Performance:** Continuous updates and maintenance necessary to handle increasing data and user interactions.

**CONCLUSION**

The project aims to create a supportive community for parents by addressing loneliness through connectivity and resource sharing. The app's design focuses on user-friendly features and inclusive content to cater to a diverse audience. Regular testing and agile practices will ensure the app remains functional, scalable, and user-centric.