

PROJECT PLAN DOCUMENT v3

<i>Project number</i>	Team 49 ¹
<i>Project Title</i>	Wave Diaries
<i>Document</i>	Project Plan
<i>Creation Date [v1]</i>	February 2, 2025
<i>Modification Date [v2]</i>	February 13, 2025
<i>Modification Date [v3]</i>	March 17, 2025
<i>Created By</i>	Shivam Gupta (2023101062) (v1), Raunak Seksaria (2023113019)
<i>Client</i>	Mr. Jazeel Jabbar, HopeLog(Startup)

Brief problem statement

The problem that we are trying to solve is confusion, lack of clarity and of experience that new parents face, by helping them log the journey of their child and incorporate a conversational speech-to-speech platform using AI which can advise them on how to parent their child. This app intends to help parents make better decisions for the future of their child and aid their child's better upbringing. It also aims to reduce stress and confusion that parents have. The app also focuses on overall mental and physical development and well-being of children.

First time parents lack experience and are usually confused on how to parent their child. They have to rely on conventional sources like other parents around them, or parenting books. These sources might not match with the specific problems they are facing and can be of limited help with limited context

Team Members

Our team consists of these members along with these as the initial roles assigned (P: Primarily responsible, S: secondary responsibility):

Aditya Gaur: Server Side(P), DevOps(P)

Manit Roy: AI/ML(P), DevOps(S)

Raunak Seksaria: Scrum Master (P), AI/ML(S), UI/UX(S)

Shivam Gupta: UI/UX(P), Server Side(S)

¹ Aditya Gaur (2023101052), Manit Roy (2023113022), Raunak Seksaria (2023113019), Shivam Gupta (2023101062)

Team Communication

A WhatsApp group has been created for effective discussions and negotiations among team members. There is also a slack team for more official communications. Team meetings will be held in-person approximately once a week in our hostel rooms.

Development Environment

1. A Trello Board has been created for task management.
2. VSCode is the primary editor which we shall be using.
3. MERN stack-based mobile-app
 - a. MongoDB
 - b. Express.js
 - c. React Native
 - d. Node.js
 - e. Associated Tools:
 - i. Typescript (for frontend)
 - ii. ESLint
 - iii. Postman
 - iv. JWT
4. GEN AI technologies (including for Automatic speech-to-text):
 - a. LangChain: Whisper
 - b. GPT 4o
 - c. Hugging Face
5. Deployment:
 - a. StreamLit
 - b. ExpoGo
 - c. Docker
 - d. AWS

Milestone Schedule

Milestone	Due Date	Release	Deliverable?
Create SRS	16/2/25	R1	No
Do preparatory work (learning technologies required)	28/2/25	R1	No
User login(including google login), registration, add child, otp verification for email	17/3/25	R1	Yes
Automatic Speech Recognition, speech-to-text, genAI API call along with multilingual support	17/3/25	R1	Yes
Chat History	17/3/25	R1	Yes
Frontend Development	17/3/25	R1	Yes
Backend Development	17/3/25	R1	No
Vaccination Charting	17/3/25	R1	Yes

<i>Control of profile of users and child</i>	15/4/25	R1	Yes
<i>Data privacy and control of chat history</i>	15/4/25	R2	Yes
<i>Milestone tracking for the child</i>	15/4/25	R2	Yes
<i>Upload prescriptions/vaccine charts of child</i>	17/3/25	R2	Yes
<i>Personalized and well thought-of UI design</i>	15/4/25	R2	Yes
<i>RAG, sentiment Analysis and fine tuning</i>	15/4/25	R2	No
<i>Notifications (app and email)</i>	15/4/25	R2	Yes
<i>Connect with other parents</i>	15/4/25	R2	Yes
<i>Deployment</i>	15/4/25	R2	No
<i>Connect with other parents</i>	15/4/25	R2	Yes