PROJECT TITLE	Project Language Learning Chatbot
PROJECT MANAGER	Project Manager
Start Date	05-Feb-24
End Date	12-Nov-24

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	DEPENDENCIES
0	**Project Initiation and Feasibility Study**					
0.1	Project Charter Development	Project Manager	2024-02-05	2024-02-07	3 days	None
0.2	Stakeholder Analysis	Project Manager	2024-02-08	2024-02-10	3 days	0.1
0.3	Initial Resource and Budget Estimate	Finance Manager	2024-02-11	2024-02-14	4 days	0.2
0.4	Project Team Assembly	Project Manager	2024-02-15	2024-02-19	5 days	0.3
0.5	Define Project Management Processes	Project Manager	2024-02-20	2024-02-22	3 days	0.4
0.6	Conduct Feasibility Study	Project Team	2024-02-23	2024-03-09	15 days	0.5
1	**Market and Product Definition**					
1.1	Conduct Competitor Analysis	Market Analyst	2024-03-10	2024-03-17	1 week	0.6
1.2	Identify Target Market Needs	Product Manager	2024-03-10	2024-03-17	1 week	0.6
1.3	Define Product Value Proposition	Marketing Team	2024-03-18	2024-03-24	1 week	1.1, 1.2
1.4	Draft Initial Product Roadmap	Project Manager	2024-03-25	2024-03-31	1 week	1.3
2	**Product Design and Development**					
2.1	Design					
2.1.1	Design Wireframes and Prototypes	UX Designer	2024-04-01	2024-04-07	1 week	1.4
2.1.2	User Journey and Interaction Design	UX Designer	2024-04-08	2024-04-14	1 week	2.1.1
2.1.3	Finalize UI/UX Designs Based on Feedback	UX Designer	2024-04-15	2024-04-21	1 week	2.1.2
2.2	**Development Setup and Core Development**					
2.2.1	Set Up Development Environment and Tools	DevOps Engineer	2024-04-01	2024-04-04	4 days	None
2.2.2	Develop Conversational AI and NLP Capabilities	AI Engineer	2024-04-05	2024-05-16	6 weeks	2.2.1
2.2.3	Implement Voice Recognition/Synthesis Features	AI Engineer	2024-05-17	2024-06-07	3 weeks	2.2.2
2.2.4	Implement User Authentication and Security Measures	Security Engineer	2024-06-08	2024-06-14	1 week	2.2.1
2.2.5	Build User Interface and Connect with Backend	Frontend Developer	2024-06-15	2024-06-28	2 weeks	2.1.3, 2.2.3, 2.2.4
2.3	**Advanced Development**					
2.3.1	Develop Custom Scenario Creator	Development Team	2024-06-29	2024-07-13	2 weeks	2.2.2
2.3.2	Add Advanced NLP Features for Nuanced Conversations	AI Engineer	2024-07-14	2024-07-28	2 weeks	2.2.2
2.3.3	Implement Feedback and Reporting Mechanisms	Backend Developer	2024-07-29	2024-08-11	2 weeks	2.2.5
2.4	**Testing and Refinement**					
2.4.1	Perform Unit, Integration, and System Testing	QA Engineer	2024-08-12	2024-08-25	2 weeks	2.2.5
2.4.2	Conduct Usability Testing with Target Users	UX Researcher	2024-08-26	2024-09-08	2 weeks	2.4.1
2.4.3	Address Issues and Refine Based on Feedback	Development Team	2024-09-09	2024-09-22	2 weeks	2.4.2
3	**Pre-Launch Marketing and Analytics Setup**					
3.1	Develop Brand Identity and Marketing Materials	Marketing Team	2024-09-23	2024-10-06	2 weeks	2.4.3
3.2	Create Pre-Launch Buzz (Social Media, Forums)	Marketing Team	2024-10-07	2024-10-20	2 weeks	3.1
3.3	Set Up Analytics and KPIs for Launch Tracking	Data Analyst	2024-10-21	2024-10-27	1 week	3.2
4	**Launch and Post-Launch Activities**					
4.1	Official Product Launch	Marketing Team	2024-10-28	2024-10-28	1 day	3.3
4.2	Monitor System Performance and User Feedback	DevOps Team	2024-10-29	2024-11-11	2 weeks	4.1

4.3	Quick Response to Initial Feedback/Issues	Development Team	2024-10-29	2024-11-11	2 weeks	4.1
5	**Project Closure**					
5.1	Project Debrief	Project Manager	2024-11-12	2024-11-14	3 days	4.2, 4.3
5.2	Final Documentation	Project Team	2024-11-15	2024-11-19	5 days	5.1
5.3	Release Project Resources	Project Manager	2024-11-20	2024-11-22	3 days	5.2
6	**Ongoing Improvement and Market Expansion**					
6.1	Collect and Analyze User Feedback for Improvements	UX Researcher	2024-11-12	Ongoing	Ongoing	None
6.2	Plan and Execute Ongoing Feature Updates and Optimizations	Project Manager	2024-11-12	Ongoing	Ongoing	6.2
6.3	Expand Market Reach Based on User Data and Trends	Marketing Team	2024-11-12	Ongoing	Ongoing	None