



Department of Computer Science - UBIT

Document: Work Breakdown Structure (WBS)

Project Title: Inquizitive Application

Team: CerebroSparks

Course Title:
Software Project Management (CS-458)

Class/Section:
BSCS – 4th Semester, Section B

Submitted by:
B23110006011 – Anabiyah Ahmed
B23110006028 – Fareeha Jawed
B23110006152 – Shahana Jamal
B23110006177 – Usaid Ahmed
B23110006178 – Wajeeha Batool

Under the Supervision of:

Maryam Feroze

Work Breakdown Structure (WBS)

Template

WBS Code	Task Name	Description	Responsible Person	Start Date	End Date	Duration	Predecessors
1.0	Project Initiation	Initial phase to define objectives and identify stakeholders	CerebroSparks	17-Jul-2025	19-Jul-2025	3 days	-
1.1	Define Project Objectives	Set clear goals for AI-powered quiz app	CerebroSparks	17-Jul-2025	18-Jul-2025	2 days	-
1.2	Identify and confirm stakeholders	Identify key users (teachers, admins)	Wajeeha Batool	19-Jul-2025	19-Jul-2025	1 days	1.1
2.0	Requirements Gathering	Gather and finalize software requirements	CerebroSparks	20-Jul-2025	26-Jul-2025	1 week	-
2.1	Conduct Requirement Sessions with Teachers	Capture quiz needs, formats, challenges	CerebroSparks	20-Jul-2025	23-Aug-2025	4 days	1.2
2.2	Document Functional and Non-Functional	Include AI quiz creation, grading,	CerebroSparks	24-Aug-2025	26-Aug-2025	3 days	2.1

	Requirements	integrity features					
3.0	Design	UI/UX and system design planning	Usaid Ahmed	27-Jul-2025	5-Aug-2025	10 days	-
3.1	Frontend Wireframes	Design quiz and student interface, teacher dashboard views	Usaid Ahmed	27-Jul-2025	3-Aug-2025	8 days	2.2
3.2	Review and Finalize Designs with Stakeholders	Get feedback from teachers and admins	CerebroSparks	4-Aug-2025	6-Aug-2025	3 days	3.1
4.0	Development	Full system coding and AI integration	CerebroSparks	7-Aug-2025	20-Sep-2025	45 days	-
4.1	Database Design	Design schema for quizzes, users, classes	Shahana, Wajeeha, Usaid	7-Aug-2025	12-Aug-2025	6 days	4.0
4.2	Database connectivity	Set up database connection for backend	Shahana, Anabiyah, Fareeha	13-Aug-2025	16-Aug-2025	4 days	4.1
4.3	Backend coding	Implement logic (user authentication, quiz logic, performance tracking)	Anabiyah, Wajeeha, Fareeha	17-Aug-2025	27-Sep-2025	11 days	4.2

4.4	API creation	Build APIs for login, quizzes, class mgmt, reports	Anabiyah, Shahana, Wajeeha, Fareeha	28-Aug-2025	04-Sep-2025	8 days	4.3
4.5	API integration	Ensure APIs work with AI module and database	Anabiyah, Shahana	05-Sep-2025	09-Sep-2025	5 days	4.4
4.6	Frontend integration with backend	Connect frontend UI to backend APIs, finalize data flow	Usaid, Wajeeha, Fareeha	10-Sep-2025	20-Sep-2025	11 days	4.5
5.0	Testing	QA testing, bug fixes, and UAT	Fareeha Jawed	21-Sep-2025	10-Oct-2025	20 days	-
5.1	Unit Testing of Individual Components	Test APIs, UI components, AI module	Fareeha, Wajeeha, Anabiyah	21-Sep-2025	28-Sep-2025	8 days	4.6
5.2	Integration Testing Across Modules	Check interactions between backend, frontend, AI	Shahana, Usaid	29-Sep-2025	05-Oct-2025	7 days	5.1
5.3	User Acceptance Testing (UAT) with Teachers	Teachers test app and provide feedback	CerebroSparks	06-Oct-2025	10-Oct-2025	5 days	5.2
6.0	Deployment	App release to production environment	CerebroSparks	11-Oct-2025	15-Oct-2025	5 days	-

6.1	Set Up Hosting on Web Server	Configure production environment	Usaid, Wajeeha	11-Oct-2025	13-Oct-2025	3 days	5.3
6.2	Deploy Final Web Application	Final deployment with monitoring setup	Usaid, Shahana	14-Oct-2025	15-Oct-2025	2 days	6.1
7.0	Project Closure	Final delivery, documentation, demo	CerebroSparks	16-Oct-2025	20-Oct-2025	5 days	-
7.1	Prepare User Manual and Documentation	Manuals for teachers/admins, dev docs	CerebroSparks	16-Oct-2025	17-Oct-2025	2 days	6.2
7.2	Final Walkthrough/Demo for Sponsor	Present app to sponsor, gather approval	CerebroSparks	18-Oct-2025	20-Oct-2025	3 days	6.1