Student Task Management System: Work Breakdown Structure (WBS)

WBS ID	Milestone/Task	Owner	Duration (Days)	Stakeholder Group	Notes
1.0	**Project Initiation & Planning**	**Hassam Ramzan (PM)**	**15**	Core Team	Defines the scope and foundational plan.
1.1	Gather & Document Requirements	Muhammad Furqan	5	System Analyst, Data Collection	Collect functional and non-functional requirements (e.g., student, instructor, admin views).
1.2	Define Scope and Create WBS	Hassam Ramzan	4	Project Manager	Finalize project deliverables and task breakdown.
1.3	Set Up Development Environment	Maryam Ashraf	3	Back-end/Logic	Establish Git repository, cloud services, and initial project structure.
1.4	Stakeholder Review & Approval	Hassam Ramzan	3	Project Manager, All	Formal sign-off on requirements and plan.
---	---	---	---	---	---
2.0	**System Design & Architecture**	**Muhammad Furqan (SA)**	**12**	System Analyst, Back-end	Designing how the system works and looks.
2.1	Design User Interface (UI/UX) Mockups	Muhammad Ammar	6	Front-end Developer	Create wireframes for task creation, dashboards, and reporting.
2.2	Design Database Schema	Maryam Ashraf	4	Back-end/Logic	Define tables for users, tasks, deadlines, and

WBS ID	Milestone/Task	Owner	Duration (Days)	Stakeholder Group	Notes
					progress tracking.
2.3	Finalize Technology Stack & API Spec	Muhammad Furqan	2	System Analyst	Define endpoints for front-end/back-end communication.
---	---	---	---	---	---
3.0	**Development & Implementation**	**Maryam Ashraf (BE)**	**40**	Development Team	Building the core functionality of the system.
3.1	Implement Database & ORM	Maryam Ashraf	8	Back-end/Logic	Set up the database and link it to the application logic.
3.2	Develop Core Back-end APIs	Maryam Ashraf	15	Back-end/Logic	APIs for User Auth, Task CRUD (Create, Read, Update, Delete), and Notifications.
3.3	Develop Front-end User Interface	Muhammad Ammar	15	Front-end Developer	Implement responsive design based on mockups (Dashboard, Task Forms, Calendar View).
3.4	Integrate Front-end with Back-end	Muhammad Ammar, Maryam Ashraf	2	Development Team	Connect UI components to the API endpoints.
---	---	---	---	---	---
4.0	**Testing & Quality Assurance**	**Laiba Shoukat (QA)**	**10**	Testing Team	Ensuring the system is reliable and meets requirements.
4.1	Conduct Unit Testing	Maryam Ashraf	3	Back-end/Logic	Test individual functions and modules.
4.2	System	Laiba Shoukat	4	Documentation/	Test end-to-end

WBS ID	Milestone/Task	Owner	Duration (Days)	Stakeholder Group	Notes
	Integration Testing			Testing	flows, focusing on data transfer between components.
4.3	User Acceptance Testing (UAT)	Tuba Asif, Laiba Shoukat	3	Data Collection, Testing	Test against defined requirements with sample users/data.
---	---	---	---	---	---
5.0	**Deployment & Launch**	**Hassam Ramzan (PM)**	**5**	Core Team	Moving the system into a live production environment.
5.1	Prepare Production Environment	Maryam Ashraf	2	Back-end/Logic	Set up servers and configure security.
5.2	Deploy Application Code	Maryam Ashraf	1	Back-end/Logic	Push final, tested code to the production environment.
5.3	Final Go/No-Go Decision	Hassam Ramzan	1	Project Manager	Final check before making the system live.
5.4	Official System Launch	All	1	All	Announce and make the platform available to users.
---	---	---	---	---	---
6.0	**Training & Documentation**	**Laiba Shoukat (Doc)**	**5**	Testing/Documentation	Ensuring users and future developers understand the system.
6.1	Develop User Manuals & Help Docs	Laiba Shoukat	3	Documentation/Testing	Create comprehensive guides for students and administrators.
6.2	Admin/User Training Session	Tuba Asif	2	Data Collection	Conduct a live session to walk through key features and usage.

WBS ID	Milestone/Task	Owner	Duration (Days)	Stakeholder Group	Notes
Total Estimated Duration:			**87 Days**		