Facial Recognition Attendance System

Req # Unique ID	Req. Description	Requested Approved	Scope Deliverables
R1	Define project objectives and scope	Approved	Project Charter
R2	Establish project timeline and milestones	Approved	Detailed project timeline
R3	Assign team roles and responsibilities	Approved	Team roles and tasks assignments
R4	Research and finalize a completed technology stack	Approved	Finalized Decisions on software/technology to be used
R5	Set up the Flask backend architecture	Approved	Functional backend architecture
R6	Develop an attendance tracking API	Approved	Completed attendance tracking API
R7	Perform unit testing on backend APIs	Approved	Verified API functionality
R8	Set up the React application	Approved	Functional frontend
R9	Conduct unit testing on Backend APIs and database	Approved	Verify backend and database functionality

R10	Deploy Flask backend on hosting service	Approved	Backend server hosting
R11	Create developer documentation	Approved	Comprehensive developer documentation
R12	Create system architecture documentation	Approved	Comprehensive architectural documention of our system
R13	Monitor system performance and logs	Approved	Proper system monitoring setup

Columns and Their Contents:

Requirement ID: Unique identifier for each requirement.

Requirement Description: Brief summary of each requirem

Design Document: Reference to the design document tha

Test Case: Reference to the test case that verifies the req

User Manual: Reference to the user manual section that d

Additional Columns (Optional):

Priority: Priority level of each requirement (e.g., high, med

Risk: Risk level associated with each requirement (e.g., hi

Assumptions: Assumptions made while defining each requ

Dependencies: Dependencies between requirements.

Status: Status of each requirement (e.g., in progress, com

Requirements Matrix

User Story	Currently Assigned to	Test case
As a project manager, I want clearly defined objectives to guide the project.	Brendon	Veryify goals/objectives
As a project manager, I want a clear timeline to track project progress.	Brendon	Ensure all milestones are defined
As a project manager, I want clearly defined roles to distribute work effectively.	Brendon	Crosscheck with WBS
As a developer, I want to ensure the right tools and frameworks are chosen.	Brendon	Check stack feasibility
As a developer, I want a well-structured backend to manage attendance records.	Brendon	Test API functionality
As a developer, I want an API to record attendance securely.	Brendon	Check API integration
As a tester, I want unit tests to ensure backend stability.	Brendon	Ensure all tests pass
As a developer, I want a working React frontend for user interaction.	Brendon	Check application functionality
As a tester, I want tests to validate backend and database integrity.	Brendon	Check tests against requirements

As a teacher, I want the system available online for real-time access.	Brendon	Veryify API connectivity post-deployment
As a developer, I need clear documentation for API usage and deployment.	Brendon	Ensure documentation is clear
As a developer, I want detailed diagrams for system structure.	Brendon	Compare against system design
As an admin, I want tools to monitor system performance.	Brendon	Ensure logs provide important metrics/data

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Document Author: Brendon Stepanek

Current Status	Comments	Due Date		
Done	Initial task	1/31/2025		
Done	Align with team deliverables	2/7/2025		
Done	Finalize after team input	2/8/2025		
In Progress	With Joshua	2/15/2025		
Not started	With Neel	2/26/2025		
Not started	Align with frontend team	3/6/2025		
Not started	Coverage >= 85%	3/15/2025		
Not started	Set up initial framework	3/17/2025		
Not started	Focus on major use cases	4/1/2025		

Not started	AWS/Heroku, service pending	4/9/2025	
Not started	Check with team	4/15/2025	
Not started	Create draft of system overview	4/19/2025	
Not started	Note: AWS does provide some monitoring tools	4/23/2025	