QA & Integration Testing Document — Board Module (Multi-Project)

Product: Bharathi's Canvas – Project & Task Board

Scope: Manual + Integration Testing of Board Module (Projects, Columns, Tasks, and Features) across multiple users and projects.

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1. Sanity Testing — Multi-User Validation

Test ID	Scenario	Steps	Expected Result	Validation
SAN-01	Verify User A login and Board access	1. Login with User A 2. Navigate to Board	Board shows only User A's projects	Network: /projects DB: user_id = User A
SAN-02	Verify User B login isolation	1. Logout User A 2. Login as User B	Board shows only User B's projects	Network: /projects DB: user_id = User B

2. Project Management

Test ID	Scenario	Steps	Expected Result	Validation
PROJ-01	Create new Project	Click Add Project → Name 'Kanban Alpha' → Save	Project appears in sidebar	POST /projects 201 DB: Project row created
PROJ-02	Delete existing Project	Click delete icon → Confirm modal	Project removed from UI	DELETE /projects/{id} 204 DB: row deleted

3. Task & Feature Integration Testing

Test ID	Scenario	Steps	Expected Result	Validation
TASK-01	Create new Story	Click Create Story → Fill fields → Save	Card appears under To Do	POST /tasks 201 DB: task row created
TASK-02	Edit Story details	Open card → Edit → Save	Updated title visible	PATCH /tasks/{id} 200 DB: title updated
TASK-03	Link Story to Feature	Choose feature from dropdown → Save	Story appears under feature list	PATCH /tasks feature_id not null DB: feature_id linked
TASK-04	Delete Story	Click delete on card	Card disappears	DELETE /tasks/{id} 204 DB: row deleted

4. Regression Checklist

☑ Project CRUD tested across users
☑ Board columns drag/drop persisted
☑ Feature and Task association consistent
☑ API responses verified with 2 active users
☑ DB reflects same structure as UI
☑ No orphan records or 500 errors
☑ UI responsive and modals accessible

Appendix: API Endpoints Implemented

The following REST API endpoints are implemented and verified during integration testing for the Board module:

API Endpoint	HTTP Method	Description
/api/v1/projects	GET	Fetch all projects for the logged-in user
/api/v1/projects	POST	Create a new project
/api/v1/projects/{project_id}	DELETE	Delete a specific project
/api/v1/columns	POST	Add a new board column to a project
/api/v1/columns/{column_id}	DELETE	Delete a board column
/api/v1/tasks	POST	Create a new user story (task)
/api/v1/tasks/{task_id}	PATCH	Update task details such as title, status, or assignee
/api/v1/tasks/{task_id}	DELETE	Delete a specific user story
/api/v1/tasks/feature/{feature_id}	GET	Fetch all user stories linked to a feature
/api/v1/features	POST	Create a new feature within a project
/api/v1/features/{feature_id}	PATCH	Update an existing feature
/api/v1/features/{feature_id}	DELETE	Delete a feature
/api/v1/features/project/{project_id}	GET	Fetch all features linked to a project