

SIT774 Task 10.3HD — Complete Awesome Website

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Introduction & Overview

This submission implements an HTML5 Canvas web application demonstrating extended UI design, E

Links

- GitHub Repository: [INSERT YOUR PUBLIC REPO URL]
- Panopto Video (≤ 10 minutes): [INSERT PANOPTO LINK, shared to Deakin org]

Highlights

- Advanced interaction element: Canvas with pen/eraser/line/rect/circle, undo/redo, PNG export.
- UI styling: Bootstrap 5, parallax hero, responsive gallery cards, modals.
- Server-side: Express with input validation (zod), centralised 404 and error handler.
- JSON model: Text-only strokes array with tool/color/size/points; rendered and rehydrated.
- Storage: better-sqlite3 (SQLite) with tables auto-created on start.
- Optional auth: passwords hashed (bcrypt), session cookie; no plaintext storage.

How requirements are met

- Advanced element & back-end connectivity: Canvas events serialized to text (JSON) and POSTed to
- Extended UI: Bootstrap, parallax, live JSON preview, gallery.
- Complex routing: ≥ 10 routes across health/auth/CRUD/search/share.
- Dynamic JSON: Drawings modelled as JSON and rendered via replay.
- Alternate storage: SQLite database of drawings & users.
- Optional secure auth: implemented; no passwords in plaintext.

Set-up steps

- 1) `npm install`
- 2) `npm start`
- 3) Open <http://localhost:3000>
- 4) Click “Sign in” to register/login, draw something, then Save.
- 5) Confirm it appears in Gallery and JSON endpoints.