



COURSE SYLLABUS

AI-Assisted Web Application Development

Build, configure and publish a database-backed web application with user sign-in and access rules, using AI coding tools directed by a written specification and managed in Git.

\$1,000 per person

10 course hours (on-demand video and labs) plus 1 hour of coaching

On-demand asynchronous training with online support, plus 1 hour of coaching.

AI-Assisted Web Application Development

Build, configure and publish a database-backed web application with user sign-in and access rules, using AI coding tools directed by a written specification and managed in Git.

Credential type	Certificate, issued by We Can Code IT
Clock hours	11 (10 course hours plus 1 hour of coaching)
Price	\$1,000 per person
Time	10 course hours (on-demand video and labs) plus 1 hour of coaching
Delivery	On-demand asynchronous training with online support, plus 1 hour of coaching.
Credential	Certificate of completion from We Can Code IT
How you earn it	You earn the certificate by completing the labs and a published capstone app that passes its acceptance checks and its security scan, reviewed by your coach.
Who it is for	This course is for staff who build internal web tools, prototypes or client-facing pages, such as operations and program staff, analysts, coordinators and designers, and for entrepreneurs and founders building their first product.
Prerequisites	Comfortable using a web browser and everyday software; no coding experience is needed
Requirements	Any computer with a modern browser; A paid Lovable plan for the month you take the course: the free plan's daily build credits are not enough for the labs. The database and sign-in use Lovable Cloud, which draws on your plan's monthly Cloud credits. A custom domain also needs a paid plan.; A free GitHub account; Access to an AI assistant such as Claude or ChatGPT, following your employer's data privacy rules

About this course

This course teaches you to build real web applications with AI coding tools, the way teams now prototype and ship internal tools. You start from a one-page specification, build the app in Lovable with an AI assistant, and then do the technical work that makes it usable: a relational database in Lovable Cloud, sign-in, access rules so each user sees only their own data, version control in GitHub, and publishing after Lovable's security scan. Every lab starts from a provided starter project, so your time goes into building and configuring. You finish with a working, database-backed app built to your own specification and live on the web.

What you will be able to do

- You will be able to build a multi-page web application from a written specification using an AI app builder and an AI assistant.

- You will be able to configure a relational database with tables, relationships and row-level access policies.
- You will be able to implement user sign-in and role-based access so each user sees only the records they are allowed to see.
- You will be able to read and modify AI-generated front-end and database code, and explain what each part does.
- You will be able to manage changes with Git commits in GitHub, roll back a broken change, and debug errors using logs and an AI assistant.
- You will be able to run a security scan, fix the issues it flags, and publish the app to a live web address.

Syllabus

Module	Hours
1. AI app builders and the generated code stack How AI app builders generate code, Front end, database and sign-in, Where generated code goes wrong, Data privacy with AI tools. Lab: You will generate a one-page app, open its code, and identify the front end, data and sign-in parts and three defects.	1 h
2. Specifications that AI can build from Users and screens, Data model, Acceptance checks, Turning a specification into build prompts. Lab: You will write a one-page specification with a data model and acceptance checks for your own app.	1.5 h
3. Building the first version Prompting from a specification, Pages, navigation and forms, Reading what the AI changed, Testing against acceptance checks. Lab: You will build the first version of your app in Lovable and test it against your acceptance checks.	1.5 h
4. Version control with Git and GitHub Connecting a project to GitHub, Commits and history, Comparing versions, Rolling back a change. Lab: You will connect your app to GitHub, make three committed changes, and roll one back on purpose.	1.5 h
5. Databases, sign-in and access rules Tables and relationships in Lovable Cloud, Sign-in providers, Row-level security policies, Roles and permissions, Data you should never store. Lab: Starting from a provided schema, you will add a database and sign-in, then write access policies so each user can read and change only their own records.	1.5 h
6. Debugging generated code Reading error messages and logs, Asking an AI assistant to explain code, Breaking out of fix loops. Lab: You will find and fix two planted defects in a starter app using logs and an AI assistant.	0.5 h

7. Capstone: finish, scan and publish

2.5 h

Specification, Database and access rules, Sign-in, Version history, Security scan, Publishing and custom domains.

Lab: You will finish your app against its acceptance checks, run Lovable's security scan and fix what it flags, publish the app, and walk your coach through the code, data model and history.

Coaching sessions

1 h

1 hour of coaching. Your coach reviews your capstone with you and answers questions as you work. Teams pool their hours into group sessions, so a team of 6 shares 6 hours of group coaching.

Live online or in-person sessions are available for an additional fee. Email admissions@wecancodeit.org for details.

Provider

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