

# **Capstone Project Overview**

You have to trust your team.

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### Overview

The capstone project will be a site designed around a central theme, which must be a viable business model. A viable business model does not necessarily require the model to be profitable. But it does require that the site have a real-world application and be viable for immediate deployment. Some example of viable business models are:

- Map of local restaurants
- Recipe database
- Map of New Mexico hiking trails
- · Local events calendar
- Job posting site

Any theme that can be applied to a viable business model can be used. The models listed above are examples and are by no means exhaustive.

### **Examples**

- http://abqtrails.deepdivecoding.com/
- http://veterans.deepdivecoding.com/

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approximately two weeks. The sprints are:

- **Sprint 1:** *Planning, and Wireframes*Create your user-driven design documentation, and plan the layout for your site.
- **Sprint 2:** React Static UI

  Create the Static Layout of the site without any external data using React
- **Sprint 3:** *REST* APIs And Data Design detail what data is being stored, and Create API endpoints to expose data from the database.
- **Sprint 4:** Tying It All Together

  Wire the React Static Frontend to pull data from the RestAPIs and add the final polish

Each individual team member is expected to build the full behavior for at least one entity, which includes the tickets relevant for that entity in each sprint. Other team members may help on these tickets by helping debug or suggesting how to write the code for those tickets, but the team member who is responsible for the entity is the only team member who is allowed to be at the keyboard while writing the code or make git commits for that entity.

In each sprint, each team member will be responsible for several *tickets*. Each ticket will consist of approximately eight hours of work to complete. Tickets will be signed off by instructors *if and only if* the following are true:

- The ticket's functionality is complete
- The code is fully commented and includes all required doc blocks
- All applicable unit tests are present and pass with sufficient coverage (normally ≥ 80% coverage)

The team may not proceed to the next sprint until all members have completed all their outstanding tickets. In the event one or more members cannot complete outstanding tickets, additional team members will be deployed to help complete the outstanding tickets.

### **Employer Roundtable**

Each group will give a 10-12 minute presentation on their project to a group of employers from the development community. This is a chance for the team to show off what they did, make a good impression, and build their professional network.

Presentations may include the following topics

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- · Next steps for the project, including monetization
- Project management
- Database design
- Version Control
- Hosting/Containerization

Each team member is required to participate in this presentation. Failure to participate in the presentation will result in failure of the capstone and bootcamp.

# **Technologies**

Table 1 depicts the technologies used in the capstone project. Use of optional technologies will be done sparingly and at the discretion of the instructors. Overuse of optional technologies detracts from the coverage of required technologies. Optional technologies will only be deployed when use cases lend themselves to the use of optional technologies. Optional technologies will **NOT** be deployed for the sake of deploying additional technologies.

	Required Technologies	Optional Technologies
	No use of deprecated tags	Uses the <audio> tag</audio>
HTML 5	Includes fully accessible forms	Uses the <b><canvas></canvas></b> tag
	Full use of semantic tags	Uses the <video> tag</video>
	All styling done in CSS	Uses animation
	Appropriate use of selectors	Uses custom configurations of
CSS	Consistent use of fonts	Bootstrap
	Uses Bootstrap for a mobile first user	Uses CSS Templating such
	experience	as LESS or SASS
	Uses React	Uses additional JavaScript
JavaScript	Uses form validation package	packages, plugins, etc.
	Uses AJAX to load results without reloading the	Uses any other JavaScript libraries
	page	or frameworks from NPM
	Includes/requires library files	

**MySQL** 

Security

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pattern

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with React

algorithms



Passwords salted and stretched using current

## **Example**

You can find a sample capstone on GitHub at https://github.com/Deep-Dive-Coding-Fullstack-Licensing/example-capstone

**SYLLABUS** PERSONAL WEBSITE PROJECT **CAPSTONE PROJECT CLASS MATERIALS PREWORK** 

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<sup>&</sup>lt;sup>†</sup> JSON preferred. XML considered only if JSON is unavailable.