



Boulder Nature Guides



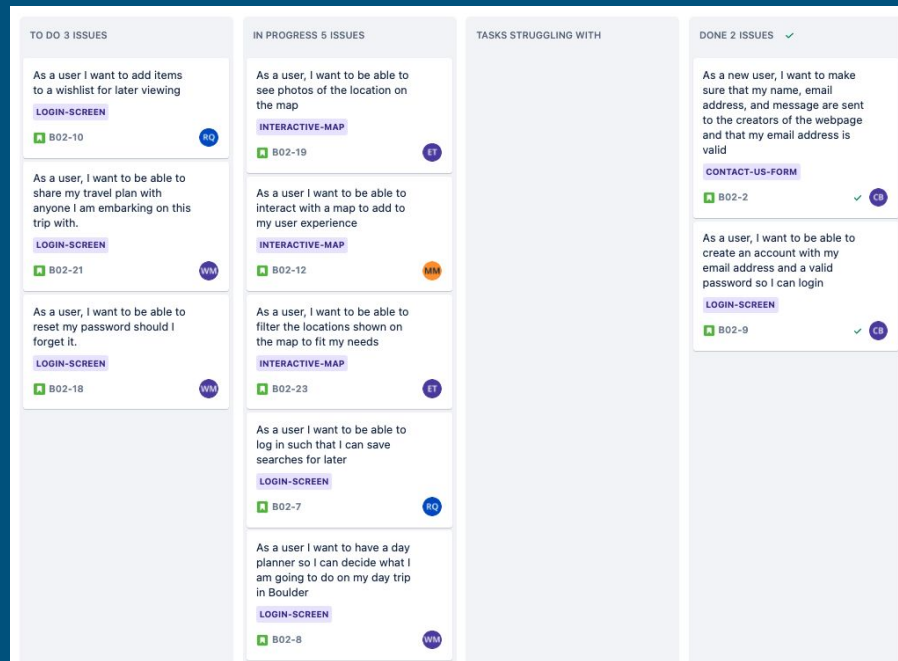
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Jira Agile Board: 4 Stars



- KanBan Board
- Agile project management tool designed to help visualize work
- Organizes sprints, user stories and epics in detail
- Updated at end of weekly meetings



Github: 5 Stars



- Online code repository
- Stored all aspects of project including code, milestones, relevant notes, etc.

The screenshot shows a GitHub repository interface. At the top, there are tabs for 'main', '1 branch', and '0 tags'. On the right, there are buttons for 'Go to file', 'Add file', and 'Code'. Below this, the repository name 'rsquinlan Delete Map Info.csv' is displayed, along with the commit hash '07fd91', the commit time 'yesterday', and '115 commits'. A table lists the repository's contents:

File/Folder	Commit Message	Commit Time
Code	Delete Map Info.csv	yesterday
DayPlanner	Create DayPlannerDraftFile	2 months ago
MILESTONES	Add files via upload	4 days ago
MapInfo	Update Parks.sql	5 days ago
TA Standup Notes	Created TA Notes 4.2	9 days ago
resources	Delete resources.txt	2 months ago
README.md	Create README.md	2 months ago
package-lock.json	profile page + logout	17 days ago

Below the table, the 'README.md' file is expanded, showing the following text:

README.md

Boulder Nature Guides:

The Boulder Nature Guides Website functions as a travel planner for users in Boulder. It contains hiking trails, ski slopes, and parks in an easy to navigate interactive map. Users can filter what they see, and save their favorite spots to easily revisit them.

The basic layout of the website (GUI) will be written in HTML and CSS. The backend handling of data processing and the like will be handled by JavaScript programs. It will be on node.js and will interact with a database.

MySQL: 5 Stars



- Database manager storing information related to the interactive map, sign up page, login page and profile page
- Intuitive language that had an easy learning curve
- Integrated well with Node.js

Node.js: 4 Stars



- Server side language used for communication between the webpage and the database
- Steep learning curve
 - Integrating node.js with the map API was challenging
- Effective in the end

Heroku: 3 Stars



- Platform as a Service (PaaS)
- Used to run our application remotely
- We ran into challenges with using this platform, so for the purposes of this presentation we are not using Heroku
- GitHub Integration is very useful
- Difficult to set up DB Integration with Postgresql since we wrote code in MySQL

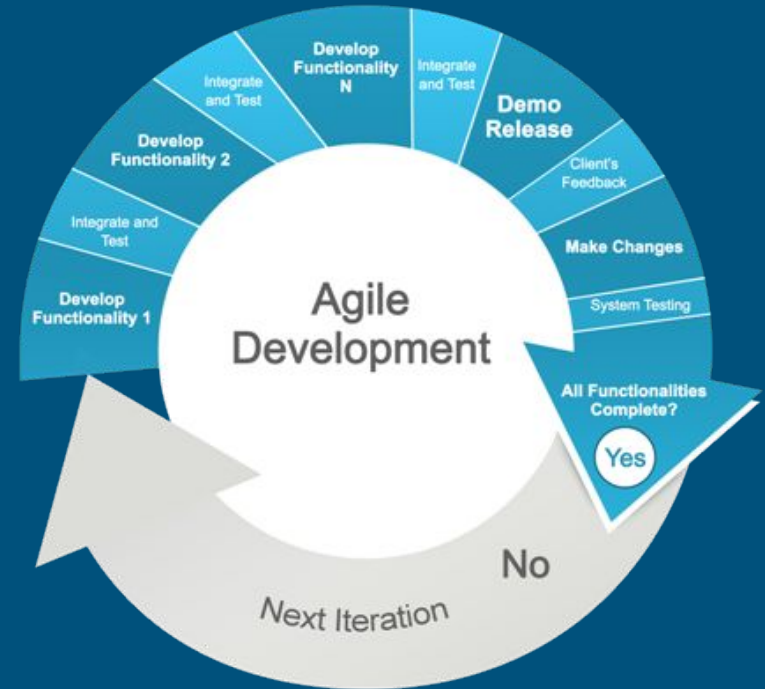
VSCode: 5 Stars



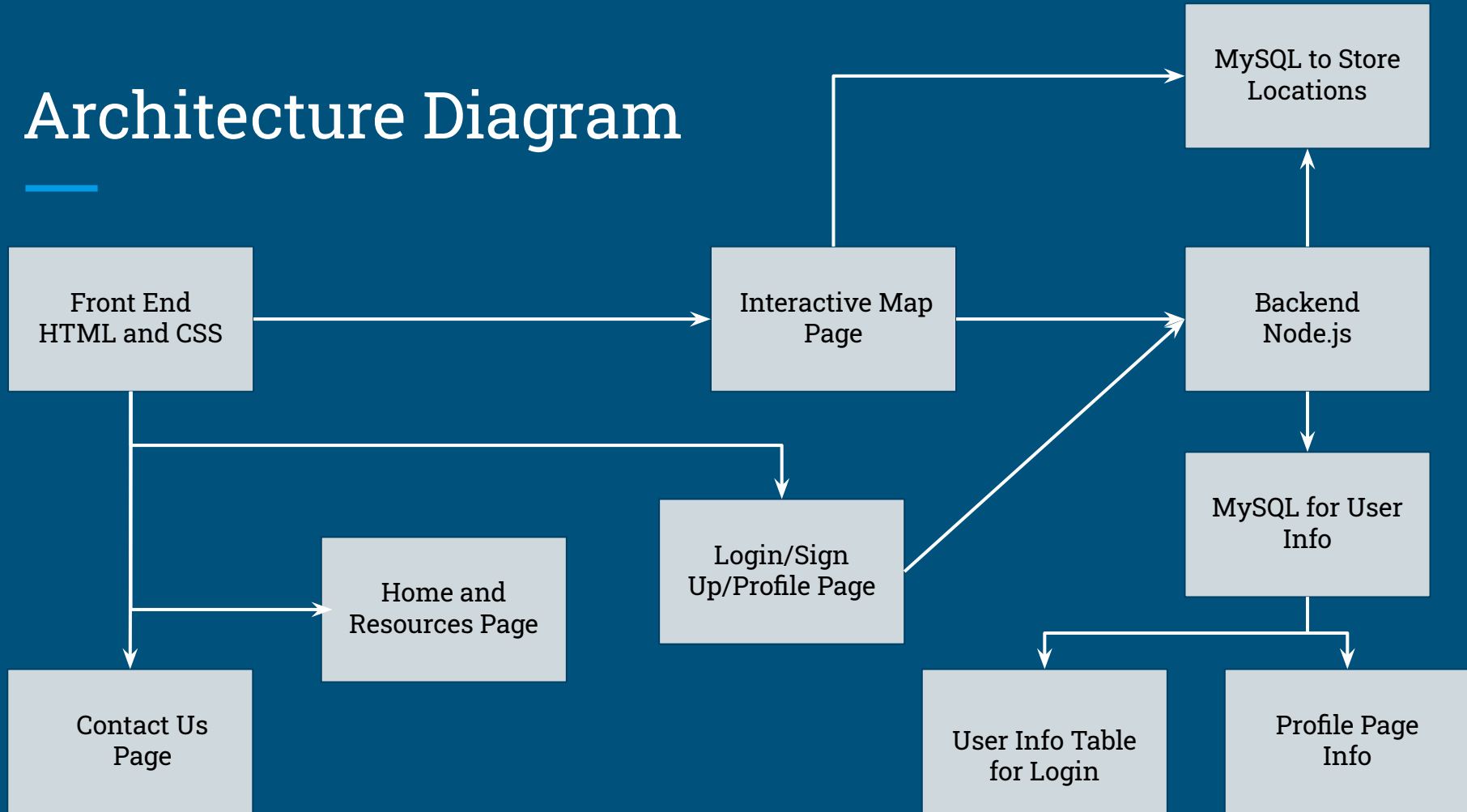
- Code editor used by majority of team members
- Proved useful for debugging
 - Easy to point out errors
- Easy GitHub integration

Methodology - Agile

- Jira software used for organization
- Weekly meetings acted as scrums
- 2 week sprints focused on particular pages of the website
- Preferable to Waterfall methodology



Architecture Diagram



Challenges Encountered

- Heroku hosting
 - Map not rendering properly
 - Login/Registration page insert query is not working properly
 - Routing to auth.js is not working yet
 - Able to host the site locally but will need to resolve the issues with routing and get app.js working with postgresql in the future