

### Vision

Powder Junkie is a ski resort review app that provides real-time, crowd-sourced updates on mountain conditions and terrain quality.

It is for skiers and snowboarders who want to explore new mountains, to find the best resort to visit each day, and to share their experiences and opinions with the world.

Unlike traditional review platforms with static information, Powder Junkie ensures users make informed decisions on the go and get the most out of the ski season.

## Tools - HTML/CSS

Purpose: Webpage structuring and

styling







#### Tools - Handlebars

Purpose: Dynamic page rendering,

consistent layout





## Tools - NodeJS

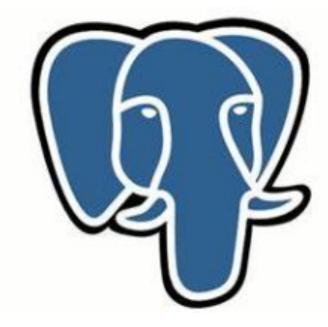
Purpose: Application server



## Tools - PostgreSQL

Purpose: Relational Database (storage of users, mountains, reviews, images, weather observations, and forecasts)





# Tools - Google Maps API

Purpose: External API for displaying

maps with pins





### Tools - National Weather Service API

Purpose: External API for retrieving weather observations and forecasts





## Tools - Postman

Purpose: API testing (both ours and

external)





## Tools - Render

Purpose: App deployment

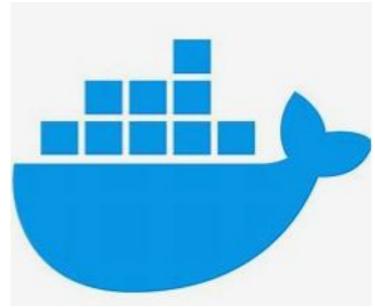




## Tools - Docker

Purpose: Containerization





## Tools - VSCode

Purpose: Integrated Development Environment, pair programming





# Tools - Mocha/Chai

Purpose: Automated Testing

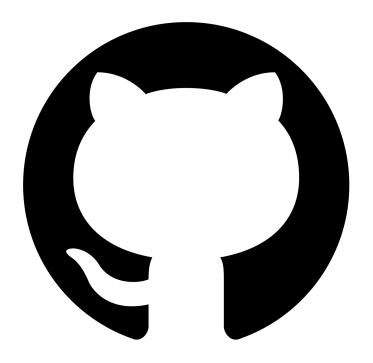




#### Tools - GitHub

Purpose: Version control, project tracking, peer code review, agile methodology





## Tools - Discord

Purpose: Team communication and

meetings





### Tools - Miro

Purpose: Collaborative whiteboard, wireframing, meeting notes, database Entity Relationship Diagram





## Methodologies - Agile

Purpose: Flexible project planning and development





## Methodologies - Peer Code Review

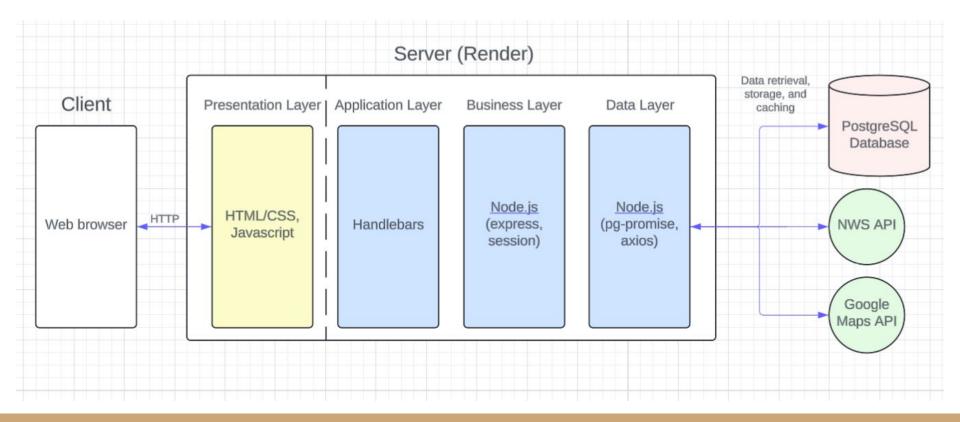
Purpose: Code checks before merging, ensuring whole team is on same page



```
→ 216 ProjectSourceCode/index.js 

□
                   })
                   .catch((err) => {
                     console.log('User not found:', err);
550
                     res.render('pages/login', { message: 'User not found
       549
                     //console.log('User not found:', err);
                     res.render('pages/login', { user: req.session.user, me
       550
551
       551
                     message: err.message;
       552
                   });
               });
       553
       554
               app.get('/mountain/:id', async (req, res) => {
555
       555
                 const messageIN = req.query.message;
556
       557
                 const mountainId = req.params.id;
                 const query = 'SELECT * FROM mountains WHERE mountain id
557
       558
                 const passesQuery = `SELECT passes.pass_name FROM passes
               @@ -563,7 +564,8 @@ WHERE mountains to passes.mountain id =
563
       564
                 JOIN reviews ON mountains to reviews.review id = reviews.r
```

### Architecture



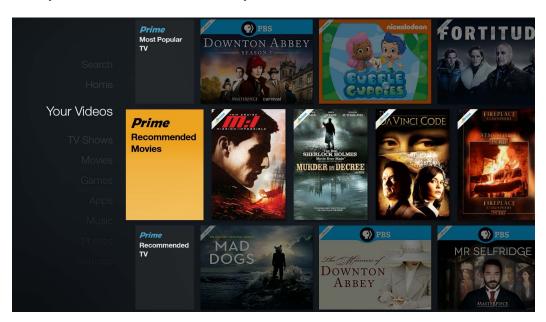
## Challenges

- Limited documentation of external APIs
  - Solution: Experimentation, starting with "best guess" and troubleshooting from there
- Visualizing Star Ratings
  - Not really a good built in way to do it with bootstrap or html and css
  - Solution: Created an external JS file that dealt with the creation of the star rating based on passed in rating and div id.
- Merging a bit of outdated stuff
  - Had to push fixes as some stuff was no longer viable or needed
- Displaying images in Render when instance spins up after inactivity
  - Previously uploaded images prior to our instance spinning up are not saved since we do not have a Disk instance (which is paid)

 Daily snow reports scraped from each mountain's website for comparing real-time conditions



 Recommendations tailored to the user based on their location, ability level, terrain preferences, and previous reviews.



 Admin account that can add new mountains, and form for users to request additions.

Contact Form	
Name	
Email	
Message	
Send a copy to my email address	
SEND	

Ability to respond to other reviews on mountains.



## Demo

