

Full-Stack: Final project

Full-Stack – Final Project

The following exercise contains the following subjects:

- ◆ EVERYTHING

Submitting instructions:

Please add the following to hive:

- A link to the repository
- Free text – a description of the app. Stuff you found hard to implement, known bugs and your review of this assignment.

You must use Git throughout the assignment (and not only commit at the end)

Use all the tech we have learned

- HTML/CSS
- JS
- React
- Node js
- MongoDB

Planning phase

Pain / Central focus

It is the center focus that everything in your project is built for.

Every good piece of software has a way to fix a pain point in people's lives. Netflix removed the 'pain' of traditional movie rentals, Facebook allowed its users to feel connected from anywhere in the world.

However, If you just want to build something that interests you, that's *amazing*, and don't let something like finding 'pain points' stop you. However, every piece of software should have a central focus. so find that before you start building anything!

Solution / features

Keeping our pain / central focus point in mind, we can start to dive into what cool features we want our software to be capable of doing to solve the pain / central focus. As we create this primary 'layer' of features, we should constantly be asking ourselves, "Is this feature going to help solve our pain point/ central focus?" If not, it's probably a waste of our time to code it.

Time management

Have 3 categories of features you want to implement.

1. Must do features.
2. Features you want to implement if you have the time.
3. Future features that would be nice to have.

Start with the back:

Database Modeling

Setup your database. What are the collections and records do you need?

API Endpoint planning

Plan your end points. Do you need full CRUD endpoints to each model? Are you going to handle query parameters with your API? If you have authentication, do some of the endpoints need to be protected?

Test all your end points on with Postman.

Then go to the Front

Design:

Components

Think of the components you need for your features.

Where to place your state.

What utility functions do you need to achieve your features.

Routes

Think what routes would you need for your components.

Pages Layout

Sketch your pages interfaces and think about components should belong where.

Keep it DRY

When you look over your blueprint, you should start to see some patterns in reused functionality. This is our chance to build out the reusable bits of code your project will be using. By doing this we are using DRY (Don't Repeat Yourself!) coding practices that will not only speed up our development process but make it more maintainable and improve our code quality as well! *It is arguably the most important step.* Think of this portion as a tiny code library specifically for your project filled with methods, functions and components that will make your lives easier.

Push To Heroku

After each feature, push it to Heroku so you know it works in production as well.

Ideas and inspiration:

<https://holycoders.com/full-stack-web-development-coding-project-ideas/>

<https://dev.to/dailydevtips1/5-full-stack-projects-to-add-to-your-portfolio-before-2020-ends-42h3>

Airbnb's Pitch

Lets look at a few slides that is relevant for us on how AirBnb did [their famous pitch](#) in 2009 that raised them \$600k.

Problem/ Pain

A slide from the Airbnb pitch deck. The slide has a light blue header with the word "Problem" in white and a blue number "2" in the top right corner. The main content is in a white rounded rectangle with three bullet points. At the bottom, there is a small line of text with contact information.

Problem 2

- Price** is a important concern for customers booking travel online.
- Hotels** leave you disconnected from the city and its culture.
- No easy way exists** to book a room with a local or become a host.

19 Divisadero Street, S.F. CA 94103 | www.airbedandbreakfast.com | 888-461-6190 | pe@airbedandbreakfast.com

Solution

A **web platform** where users can rent out their space to host travelers to:

**SAVE
MONEY**

when traveling

**MAKE
MONEY**

when hosting

**SHARE
CULTURE**

local connection to the city

10 coach street, sf, c, san francisco, ca 94103 · www.airbedandbreakfast.com · @888.461.8180 · pe@airbedandbreakfast.com

Product / core features

SEARCH BY CITY → REVIEW LISTINGS → BOOK IT!



10 coach street, sf, c, san francisco, ca 94103 · www.airbedandbreakfast.com · @888.461.8180 · pe@airbedandbreakfast.com

Search by city

Anywhere Anytime 1 guest

Become a Host Help Sign Up Log In

FOR YOU HOMES EXPERIENCES PLACES

Experiences

See all >



See all >

Review listings

Los Angeles Anytime 1 guest

Become a Host Help Sign Up Log In

FOR YOU HOMES EXPERIENCES PLACES

Room type Price range Instant Book Refund policy More filters



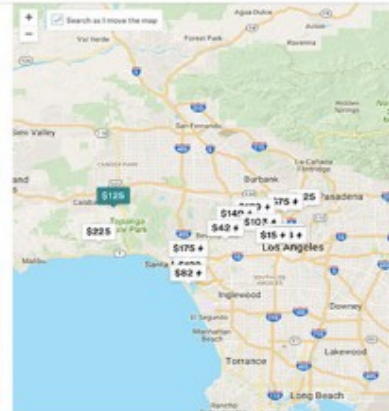
\$105 Private Pool House with Amazing View
Entire home/apt · 1 bed
★★★★★ 83 reviews



\$225 Ocean View Malibu Hideaway
Entire home/apt · 3 beds
★★★★★ 89 reviews



\$129 Sweetest Cottage in Venice Beach
Entire home/apt · 2 beds
★★★★★ 392 reviews



\$140 MY LITTLE PARIS IN LOS ANGELES
Entire home/apt · 1 bed

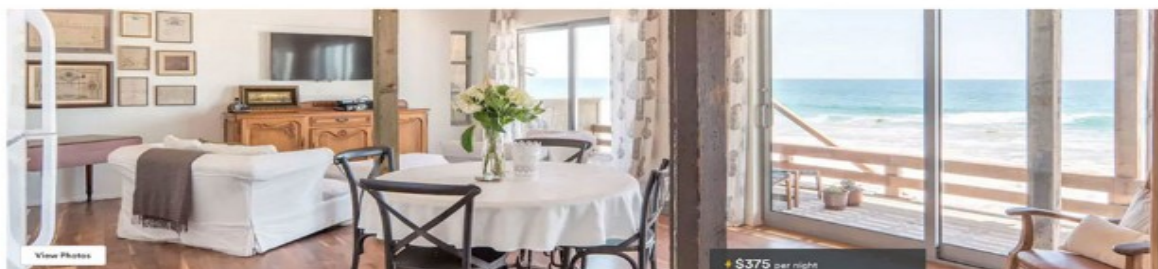


\$195 TOP OF THE HILL ACREAGE
Entire home/apt · 3 beds



\$795 Luxurious modern house with Po
Entire home/apt · 4 beds

Book it!



View Photos

Overview Reviews The Host Location

Malibu By The Sea Beachfront Apt

Malibu, CA, United States ★★★★★ 96 reviews



Connect



Entire home/apt



2 Guests



1 Bedroom



1 Bed

\$375 per night

Check In

mm/dd/yyyy

Check Out

mm/dd/yyyy

Guests

1 guest

Book

100% refundable - You won't be charged yet

