

# Putting it all together

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# Overview

- The assignment
- The backend
- The frontend
- Strategy to tackle the task

# The Assignment

# Instacram

- Close to a real-world Frontend experience
- Idea is to build a Single Page App (SPA)
- Repository and some code provided
- There are milestones but mostly it's very open.  
Go nuts.

# What's provided

- A basic example application in `/frontend`
- An API development server in `/backend`
- Some helper code in the frontend

# **RTFM!**

- There are lots of docs provided
- Please read the spec, and supplied material first

# Do's and Don'ts

- Don't use a JavaScript framework!
- Vanilla JS only
- Happy for you to lean on CSS libraries

# Getting Started

```
# Clone the Repo
```

```
git clone
```

```
# Directory Structure
```

- backend
  - run.py
  - other...
  - README.md
- frontend
  - index.html
  - other...
  - README.md
- README.md





**The Frontend**

# Directory Structure

```
- frontend  
- data/  
- images/  
- src/  
- styles/  
- tests/  
- index.html  
- package.json
```

# Example Code

- In /src you'll see an example app structure.
- You can reuse as much of this code as you want.

```
// eg. Deals with uploading a local image
function postImage(event) {
  const [ file ] = event.target.files;

  const validFileTypes = [ 'image/jpeg', 'image/png', 'image/jpg' ]
  const valid = validFileTypes.find(type => type === file.type);
}
```

# Running Your App

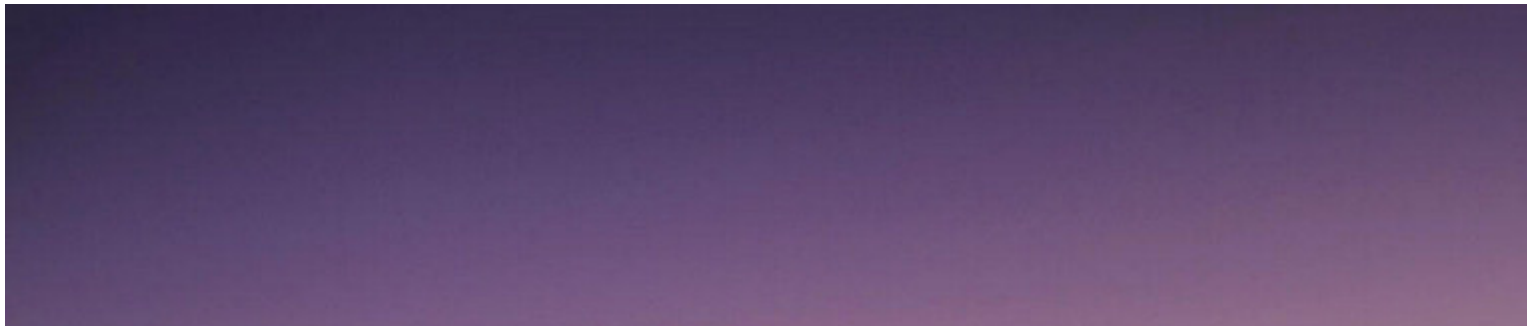
- Spin up the frontend server `npm start`
- Go to `localhost:8080`

# You should see this:

## Instacram

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## Nina



# Tips

- To start develop using the static data in frontend
- Transition slowly to the backend development server

# Backend

# Directory Structure

- backend
- run.py
- app.py
- README.md



# Getting Started

```
cd backend
# create a sandbox for the backend
virtualenv -p /usr/local/bin/python3 env
# enter sandbox
source env/bin/activate
# set up sandbox
pip install -r requirements.txt
# run backend! Will run on port 5000.
# go to http://127.0.0.1:5000/ to see the docs!
python run.py
```



**API Docs**

**Understand the  
endpoints**

**Backend is a blackbox**

# **Strategy for doing Assignment**

# Approach

1. Get something basic working with the data provided in `/frontend/data`
2. Once you've got something basic working, start hitting the `/dummy/` API, which doesn't require authentication. See docs.
3. Finally, once you've got that working, transition over to use the real API.

# The end

Big thanks to Andrew for allowing us to get this going - and Zain Afzal for driving this thing forward. Good luck for the assignment. Thanks.