Model-View-Controller (MVC)

Model-View-Controller (MVC)

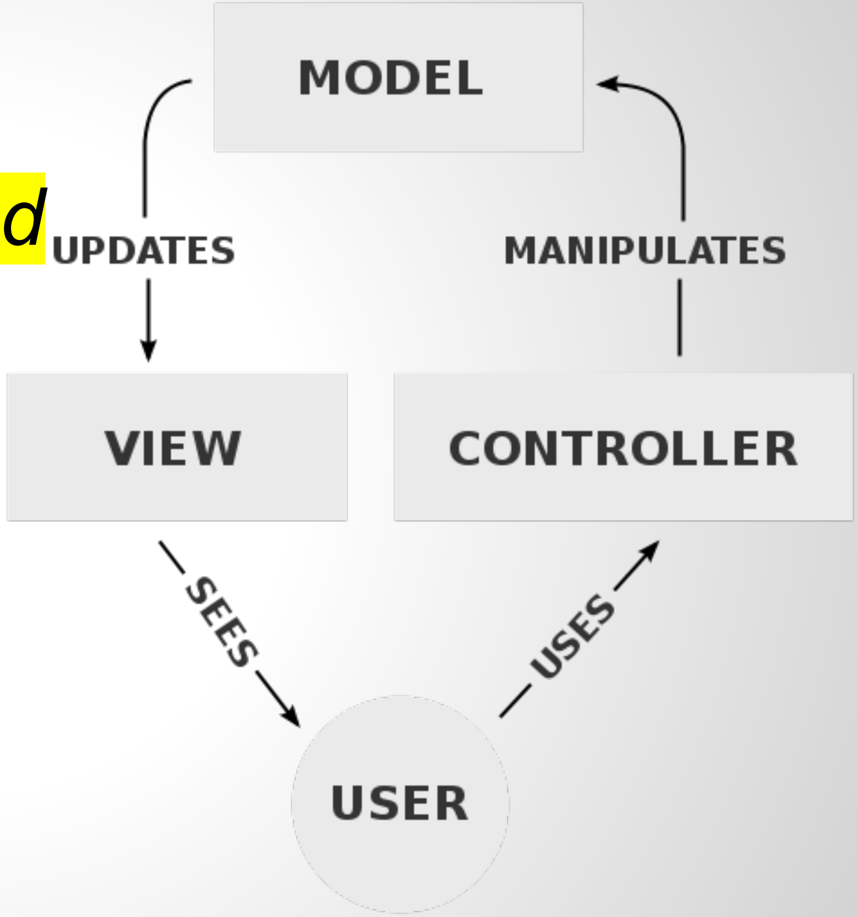
- MVC is a software architecture pattern used for user interfaces (e.g. web applications!)
- Separate code into three parts, with different purposes
  - **Model**: the data
  - **View**: interface for users to view/change the data
  - **Controller**: methods to change the data

Why MVC?

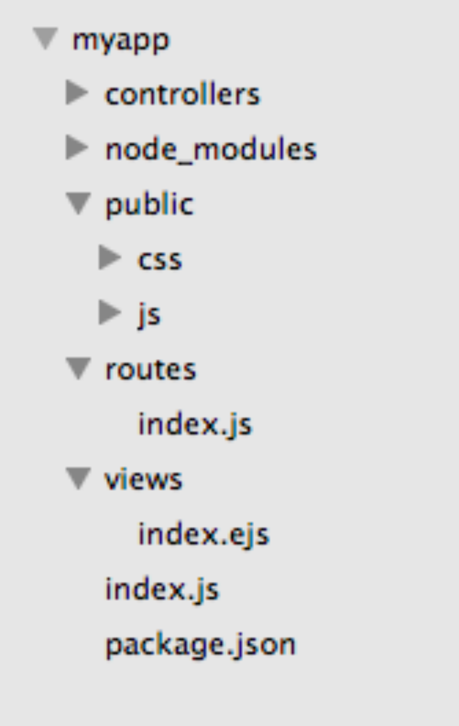
- Remember, we software developers love modularity and separation of concerns!

- Same big reason why we:
    - Separate HTML from CSS (no inline styling)
    - Separate servers and clients

- **Model**: the data. *data model does not depend on views or controllers*
- **View**: interface for users to view/change the data
- **Controller**: methods to change the data



“MVC” in Express



```
▼ myapp
  ▶ controllers
  ▶ node_modules
  ▼ public
    ▶ css
    ▶ js
  ▼ routes
      index.js
  ▼ views
      index.ejs
    index.js
    package.json
```

- *create these directories/files*

- *npm install ejs*

- *app.js*
- *routes/index.js*
- *views/index.ejs*

Resources

http://www.tomdalling.com/blog/software-design/model-view-controller-explained/

1. form teams
2. turn in paper with team member names, brainstorm ideas