

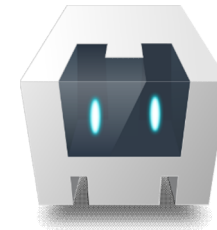
Oracle JET



# Oracle Solutions



# OJET Toolkit



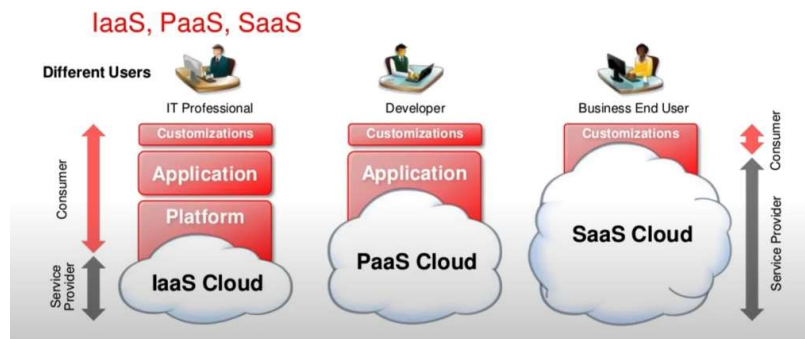
APACHE  
CORDOVA™



# Javascript Ecosystem

- Vibrant, innovative ecosystem
- Increasing popularity of mobile devices
- Expense of native applications
- Popularity of hybrid mobile applications
- Challenges of a volatile, dynamic ecosystem
- Relevant and Maintainable over a number of years

# Modern Business Applications and Cloud

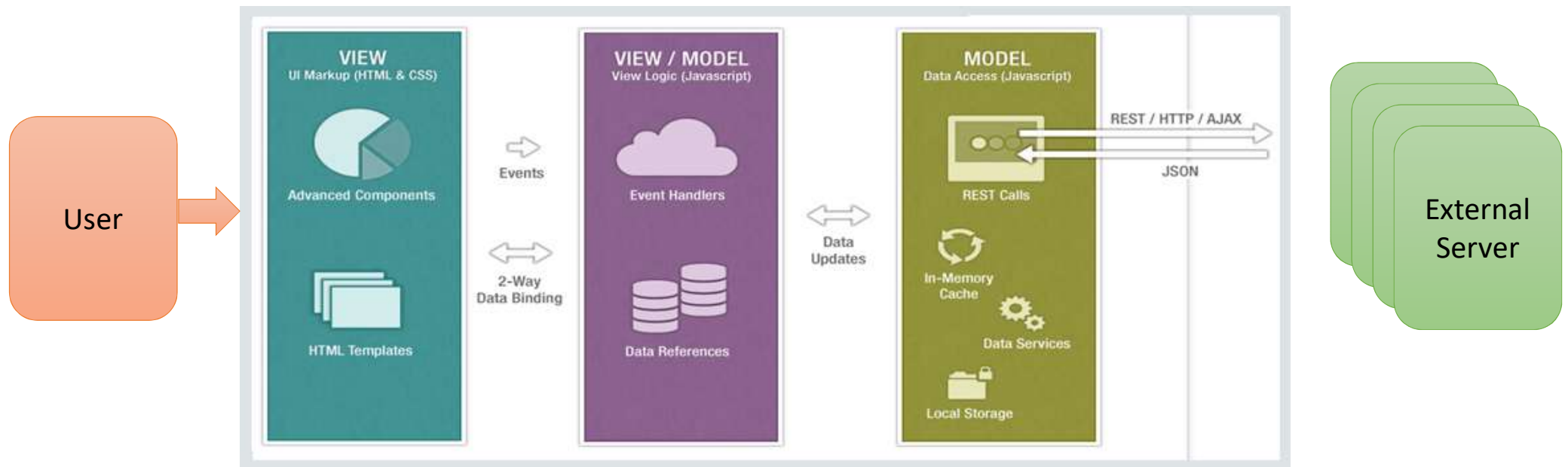


- JS is the native language of the internet
- Research with Cloud architectures
- OJET is the resultant of that research
- Oracle recommendations and best practices for enterprise JS

# Oracle JET

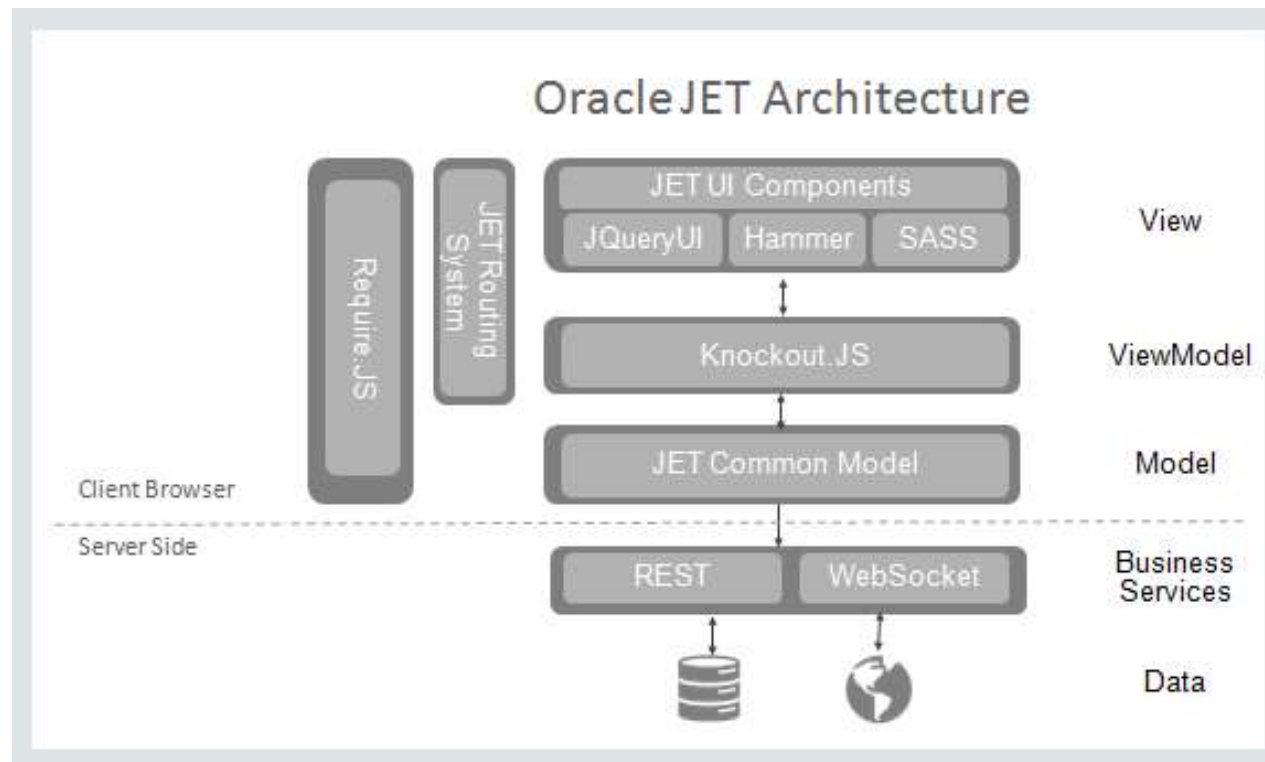
- Free and Open Source
  - [github.com/oracle/oraclejet](https://github.com/oracle/oraclejet)
- Javascript Toolkit
- Useful Architectures, Patterns, Templates, Techniques, Components
- Focussed on Enterprise Applications
- Javascript, HTML5 and CSS3
- Result of research at Oracle in Javascript enterprise applications

# OJET MVVM Concepts

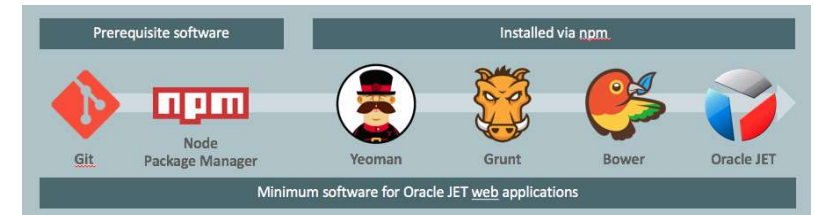
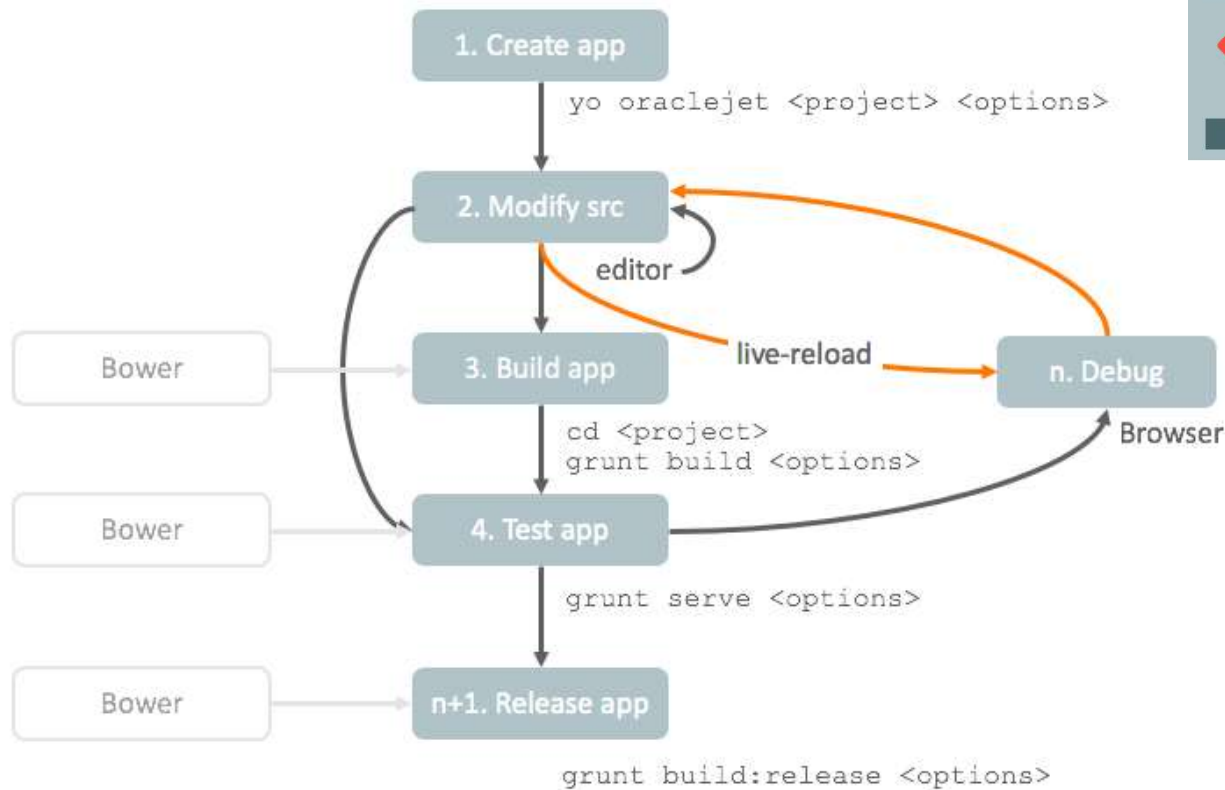




# OJET Architecture



# Development Process with OJET



# Installation and Configuration

- Download and install node.js  
<https://nodejs.org/en/download/>
- Install OJET Client  
> (sudo) npm install -g @oracle/ojet-cli
- Verify the OJET CLI  
> ojet help  
> ojet --version

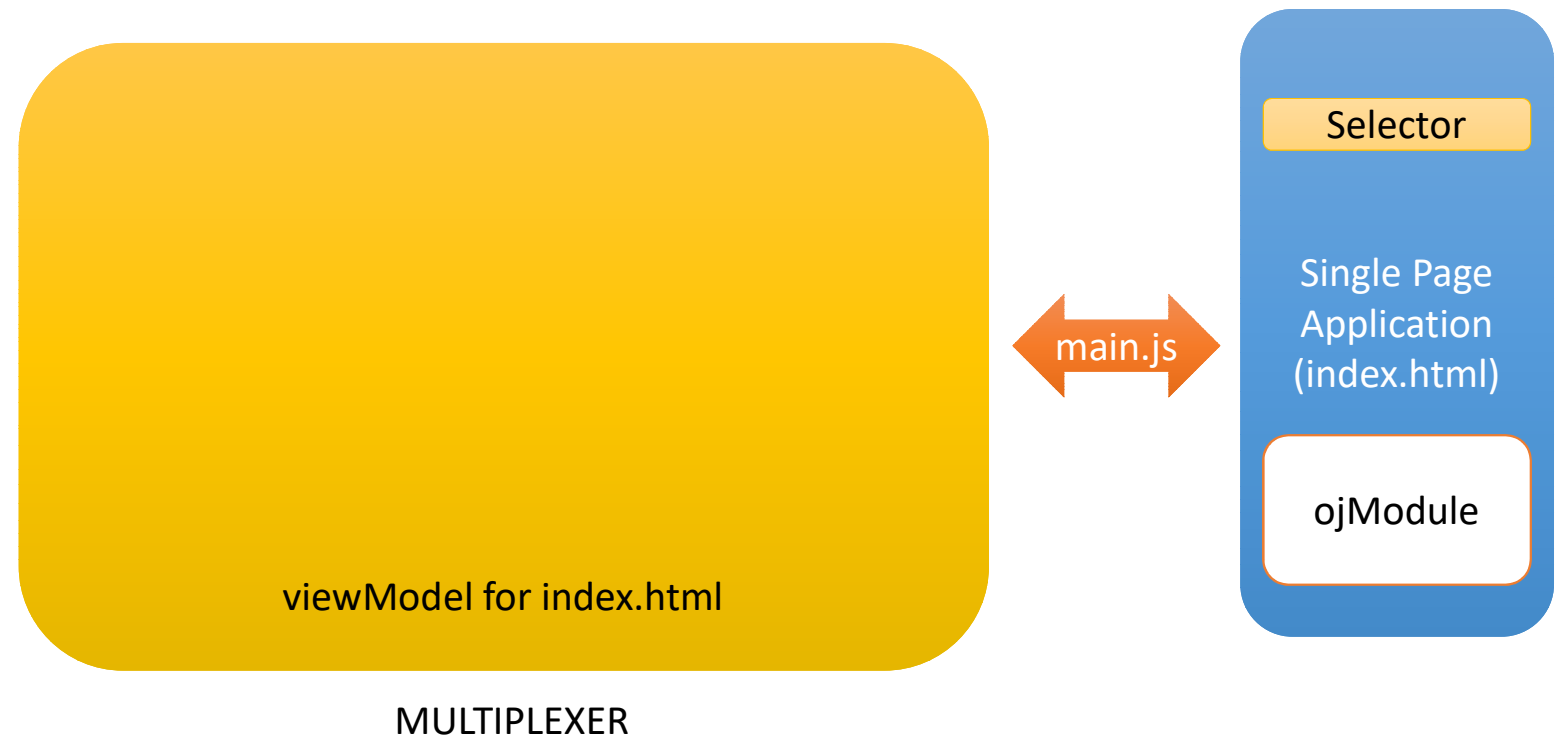
# First OJET Web Application

- Developing client-side web application with Oracle JET is simple and efficient
- Create a starter template
  - > `ojet create firstwebapp --template=navdrawer`
- Run the web application
  - Change the directory to firstwebapp
  - Execute the command

> `ojet serve`

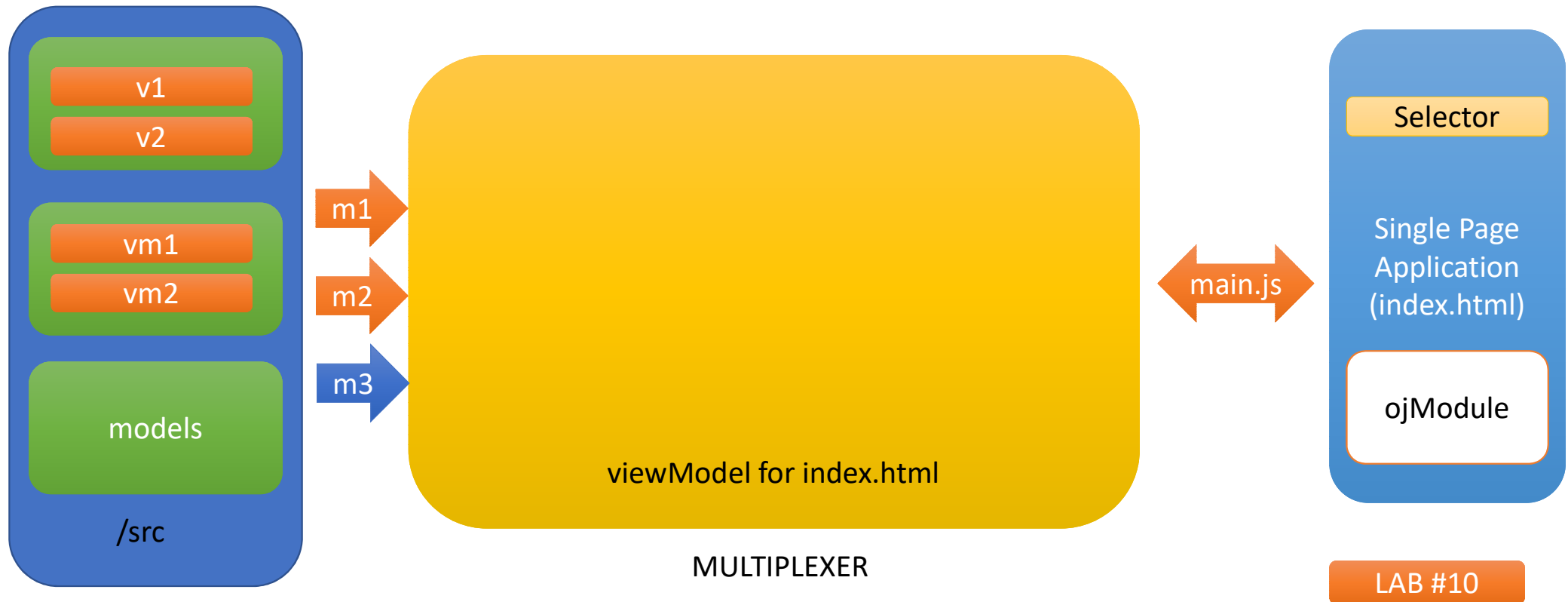
# OJET Code Structure

Feature = Module = view + viewModel



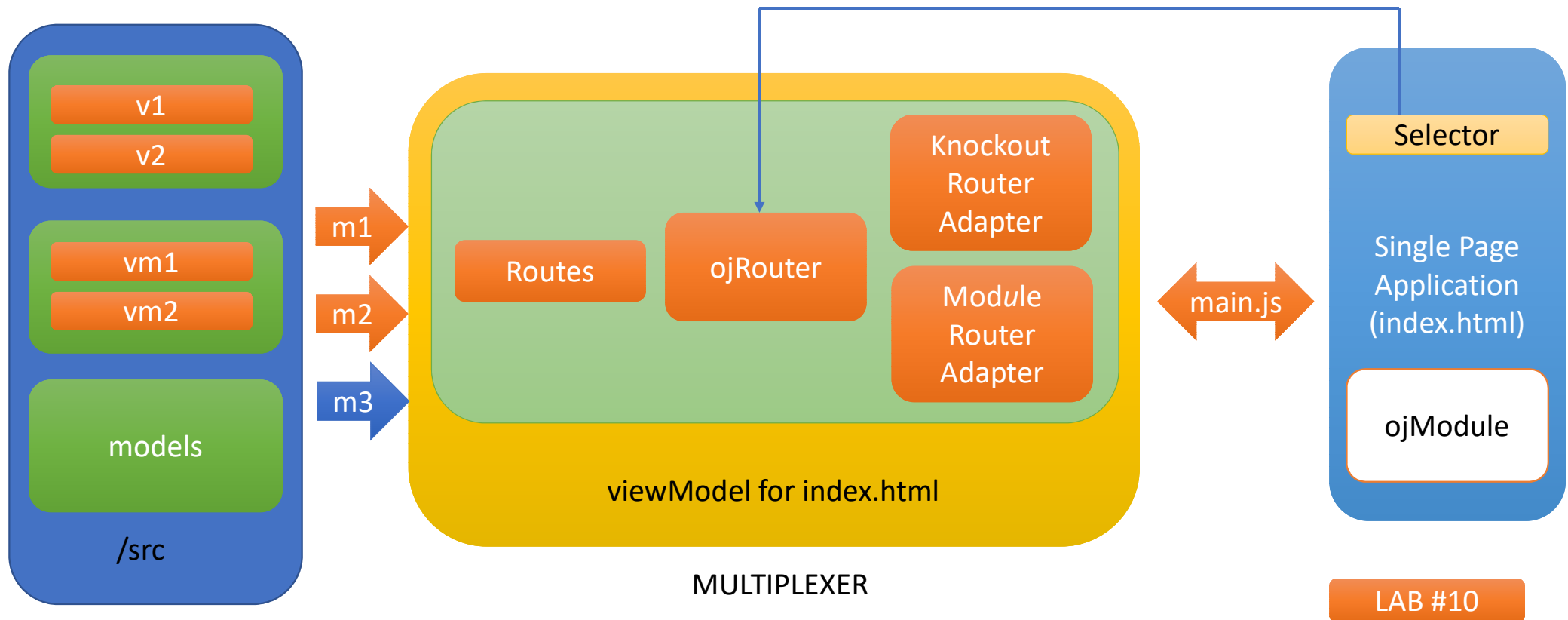
# OJET Code Structure

Feature = Module = view + viewModel



# OJET Code Structure

Feature = Module = view + viewModel



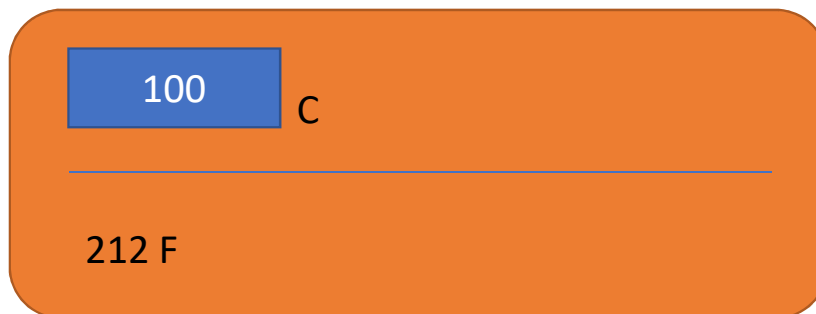


Evolution of Javascript Ecosystem



# Using Require JS and Knockout JS in OJET

- Require JS helps in dependency management
- Knockout JS helps in data-binding and automatic tracking of value/property changes, it updates all references to that property automatically



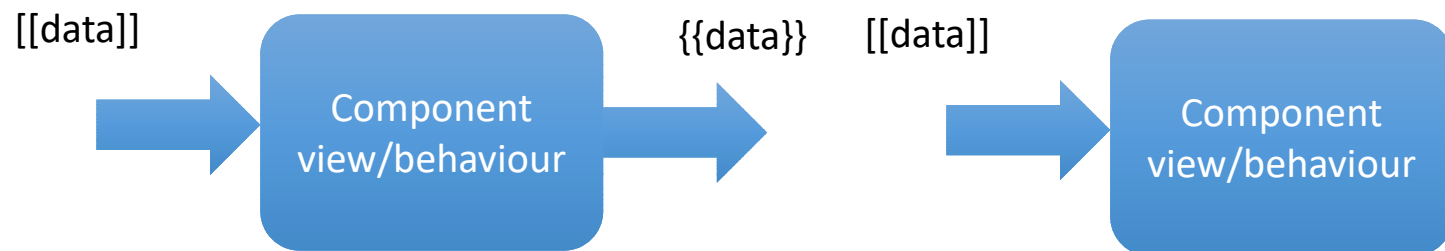
100 C

---

212 F

# Oracle JET Components

- Powerful and clean way of organizing UI code into self-contained reusable chunks
- Development patterns beneficial for large applications, simplifying by encapsulation
- Improve performance by incremental loading of resources



# Loading Resources

- Require.js Text Plugin is an extension of Require.js
- Enables you to load text based resources
- Let's you separate HTML templates from business logic in Javascript files

# Creating Modules

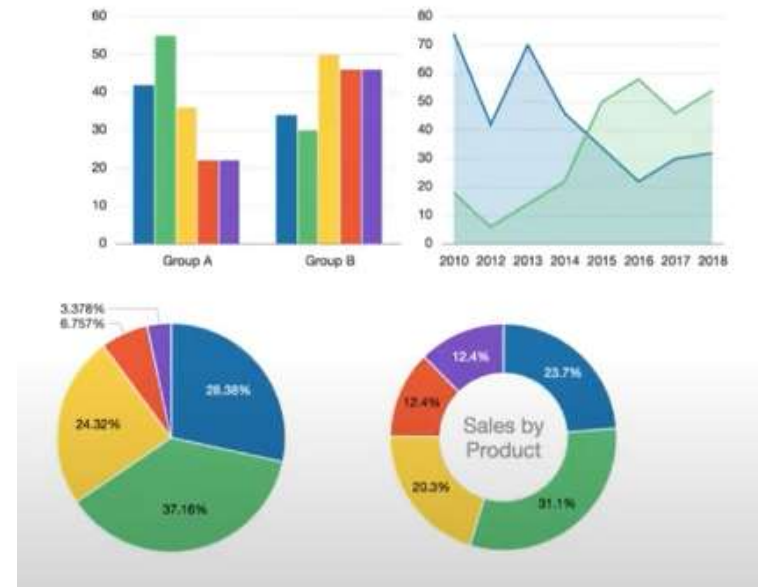
- OJET applications are inherently modular
- An OJET module has its business logic in Javascript and its view in HTML
- An OJET module represents a section in your application providing a new feature to the user

# OJET Flex Layouts

- Oracle ALTA UI design systems  
<https://www.oracle.com/webfolder/ux/middleware/alta/index.html>
  - Set of CSS classes used to design modern Oracle applications
  - Default theme of Oracle JET
  - Design with mobile first approach
- Flex box layout is the standard part
  - Efficient way to layout, align and distribute space for applications
  - Helps accommodate variety of device visual spaces

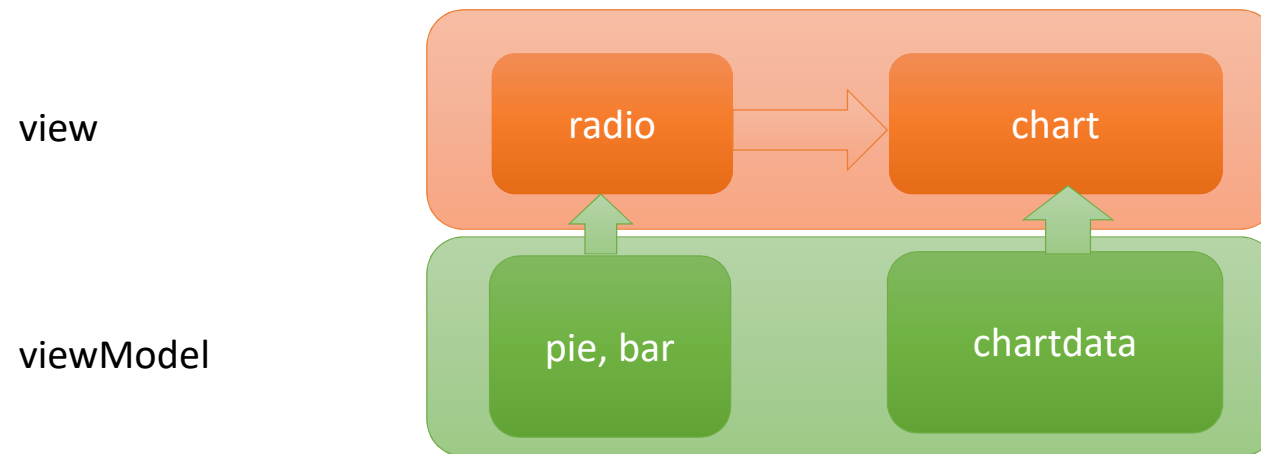
# OJET Cookbook Components

- Open sourced
- Online OJET Cookbook provides recipes for each component
  - HTML View
  - JS/TS Business Logic
- JSDoc describes each component



Explore Cookbook, Understand Workflow

# OJET Cookbook Components



# Creative Lab: Add a new feature to the app

