ui-router: States & navigation

Understand, and boilerplate

Objectives

+ Define what is meant by state of an interface.

+ Describe initial app startup sequence when `index.html` is loaded.

+ List the steps `ui-router` makes when it transitions between states.

State

Single Page App Architecture

+ AKA SPA

+ The point is to minimize requests to the server that cause the page to reload.

+ SPA frameworks provide a way to switch what the user sees and can do throughout various parts of the app.

State of the UI

+ Cohesive collection of outputs and inputs on a UI.

+ What data is read and revealed: text, image, video, audio.

+ What *affordances* are provided to navigate to create, update, or delete the data.

+ Affordances are like handles on teapots: they let you do something.

URLs, States, & ui-router

+ States are named as strings in configuration

+ URLs can be assigned to these named routes

+ URLs are examined by `ui-router`, *but are not the states in themselves.*

+ Several ways to instruct ui-router to change state.

Initial Page Load

Initial start sequence

+   index.html is loaded from the back end.

+   Front end follows references to other CSS and JS.

+   Angular starts

+   ui-router loads configuration and templates.

+   ui-router renders initial route

Changing State

+   Change URL