

JavaScript Coding assignment

Goal

To develop a client-side JavaScript/HTML5 application that uses REST APIs and can work offline.

It must use following: Angular, TypeScript, and Bootstrap (versions may vary).

Use case:

1. By using the public [Star Wars API](#) , create a two-page application:
 - a. People page (default)
 - b. Planets page
2. “People” page (see mockup A) should partially list People (from api) where one can see them all by scrolling down, or, use the search to filter by a character’s name.
3. By selecting a list item, the app should show an information about that character on the right.
4. Planets page (see mockup B) – just a simple details page about the planet, with a “Back” button in the header.

What we are looking for:

- Structuring of the code (business logic, UI components, routing, etc.)
- Object Oriented Programming based on classes
- Minifying and bundling the code for production usage
- Testability

Optional / Bonus points:

- Implement a clickable “Home Planet” link which will navigate the user to the *Planets* page with the character’s home planet selected.
- By clicking the browser “Back”, the user should return to the previous page.
- App should load while offline. By clicking on a “Enable Offline” button, the app should download all the characters data into the browser local storage. The List view should be fully functional.
- Responsive layout on mobile devices.

Successful completion criteria:

1. By opening the app, the user should be navigated to “People” page.
2. People Listview should be populated with the first 10 characters.
3. By scrolling down the app should be able to load all available characters.
4. User should be able to search by character name.
5. By clicking on the character list item the app should display his details.
6. By clicking on “Home Planet” link, the user should be navigated to the “Planets” page.
7. By clicking “Back”, the user should be navigated back to the previous page.
8. By clicking on “Enable Offline”, the app should download all the characters and make them available while offline.
9. App UI looks and feels good on both desktop and mobile screen sizes.

Mockup A

App Title

http://localhost:8080/#people/1/

People

Enable Offline

search

Item 001

Item 002

Item 003

Item 004

Item 005

Item 006

Item 007

Item 008

Item 009

Item 010

Item 011

Item 012

Item 013

Item 014

Item 015

Item 016

Item 017

Item 018

Item 019

Item 020

Item 021

Item 022

Name

Year of Birth

Gender

Height

Mass

[Home Planet](#)

Mockup B

App Title

http://localhost:8080/#planets/1/

< Back

Planet

Name

Rotation Period

Orbital Period

Diameter

Climate

Gravity

Terrain

Surface Water

Population