

SWAPP (Star Wars App)

Specification

Info

React Web Application that explores some interesting Star Wars data.

Create open-source React Web Application that retrieves Star Wars data from GraphQL server. Each piece of functionality you implement should be introduced via Pull/Merge Requests which have successfully passed a CI build.

Data

1. Data is fetched from GraphQL Server:
<http://softuni-swapp-212366186.eu-west-1.elb.amazonaws.com/graphql>
 - a. Navigating to this link will also open GraphQL Playground where you can explore the schema
2. There is only one user available:
 - a. Email: **demo@st6.io**
 - b. Password: **demo1234**
3. Authenticating GraphQL queries
 - a. Authenticating the queries happens by adding **Authorization** header to the request with value **Bearer <token>**. For instance:
Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6ImVkbOTZmYTFlYTQxYTA4MGYyYjlxMjMwMiIsImVtYWlsIjoicGVtb0BzdDYuaW8iLCJyb2xlIjoicURNSU4iL1KHHASDHXQiOjE1NzAxNzYwMjksImV4cCI6MTUzMDE3Nzg5OX0.1vYZfspRxVA9wV_FbHL5N0YoVM8ZVQz9y09LfAgjwSc

Routes

1. **Routes that don't require authentication:** Accessible **only** when the user hasn't been signed in.
 - **/login** - displays the **Login Page**. The user should always be redirected to the login page if s/he hasn't signed in. For instance, user opens `https://<domain.name>/episodes` but isn't logged in, s/he should be redirected to `https://<domain.name>/login`
2. **Authorized Routes:** Accessible **only** when the user has signed in.
 - **/episodes** - displays the list of episodes. (**Episodes Page**)
 - When the user logs in, s/he should be redirected to this page.

- This should be used as the default page, i.e. if the user navigates to *https://<domain.name>/*, s/he should be redirected to this page.
- Clicking on the **Episodes** button in the AppBar should navigate to this page.
- ***/characters*** - displays the list of the characters. (**Characters Page**)
 - Clicking on the **Characters** button in the AppBar should navigate to this page.
- ***/episodes/:episodeId*** - displays the data for the episode with *id = episodeId* (**Episode Page**)
 - Clicking on the Episode Preview in the *Episodes Page* must navigate to this page.
- ***/characters/:characterId*** - displays the data for the character with *id = characterId* (**Character Page**)
 - Clicking on the Character Preview in the *Characters Page* must navigate to this page.
 - Clicking on the Character Preview in the *Episode Page* must navigate to this page.
- ***/starships/:starshipId*** - displays the data for the starship with *id = starshipId* (**Starship Page**)
 - Clicking on the Starship Preview in the *Character Page* must navigate to this page.

UI/UX

1. Clicking on the SWAPP logo (both at the login screen and the App Bar) must change the theme from dark to light and vice versa.
2. The selected theme should be stored across sessions, i.e. if the user opted for the dark theme and closes the window, once s/he reopens it, the dark theme should be applied.
3. If there is some kind of an error during login, an appropriate info message should be shown (e.g. 'Invalid Credentials')
4. Navigation between different pages should result in changing the URL address in the browser's navigation bar.
5. The pages and components should have a similar look and feel like the [images below](#).
6. The application should be responsive:
The application should present the content in the best possible way for the devices it's run on. Look at the [examples](#).

7. Behavior on *initial* navigation to:

- a. **Episodes Page** - all episodes should be loaded
- b. **Episode Page** - only five characters should be loaded (fetched), if the user clicks on the **Load More** button, five more characters should be fetched from the server and presented.
- c. **Characters Page** - only 12 characters should be loaded (fetched), if the user clicks on the **Load More** button, 12 more characters should be fetched from the server and presented.
- d. **Character Page** - all starships should be loaded

8. Additional Specifications:

- a. **SWAPP Logo** - use some external Star Wars font (e.g. [SF Distant Galaxy Regular](#))
- b. **Starship Page:**
 - i. The *RadarChart* compares each stats of the starship to the relevant min and max stats of the same starship class. For instance:
*X-Wing is of class **starfighter**, so its stats are compared to the max stats of all starfighters. E.g. its cost is 149999 credits, so it would be compared to the min and max credits for all starfighters, which are:*
 - **min:** 0 from TIE Advanced x1
 - **max:** 320000 from Eta-2 Actis-class light interceptor
 - ii. Stats that are *undefined* must not be shown in the starship card info (with exception to **credits** field, if credits field is *undefined* it should be considered as 0)

9. Style Specs Specification:

Note that it is optional to use the same color scheme, but having **light** and **dark** themes is mandatory.

- a. Common Colors:
 - i. Yellow: #FFE300
 - ii. Light Blue: #4BD5EE
 - iii. Black: #000
 - iv. White: #FFF
- b. **Light Theme:**
 - i. Default Background: #E8EAED
 - ii. Default Font Color: #4E5B6E
 - iii. **Cards:**
 - Border-color: #E5E9F2
 - Background: #FFF
 - iv. **Solid Buttons:**
 - Background: #000
 - Border-color: #E5E9F2
 - Font Color: #FFE300
 - v. **Outline Buttons:**

- Background: #EFF2F7
 - Border-color: #E5E9F2
 - Font Color: inherit
- vi. **Inputs:**
 - Background: #EFF2F7
 - Border-color: #E5E9F2
 - Font Color: #3C4858
- vii. **App Bar:**
 - Background: #000
 - Border-color: #333
 - Font Color: #4BD5EE
- viii. **Primary Heading:**
 - Font Color: #4BD5EE
- ix. **Radar:**
 - Font Color: #4BD5EE
 - Background: #000
 - Grid: #3C4858
- c. **Dark Theme:**
 - i. Default Background: #000
 - ii. Default Font Color: #abb1ba
 - iii. **Cards:**
 - Border-color: #3C4858
 - Background: #333
 - iv. **Solid Buttons:**
 - Background: #4BD5EE
 - Border-color: none
 - Font Color: #FFE300
 - v. **Outline Buttons:**
 - Border-color: #3C4858
 - Background: #333
 - Font Color: inherit
 - vi. **Inputs:**
 - Background: #FFF
 - Border-color: #3C4858
 - Font Color: #273444
 - vii. **App Bar:**
 - Border-color: #3C4858
 - Background: #333
 - Font Color: #4BD5EE
 - viii. **Primary Heading:**
 - Font Color: #FFE300
 - ix. **Radar:**
 - Font Color: #FFE300
 - Background: #000
 - Grid: #333

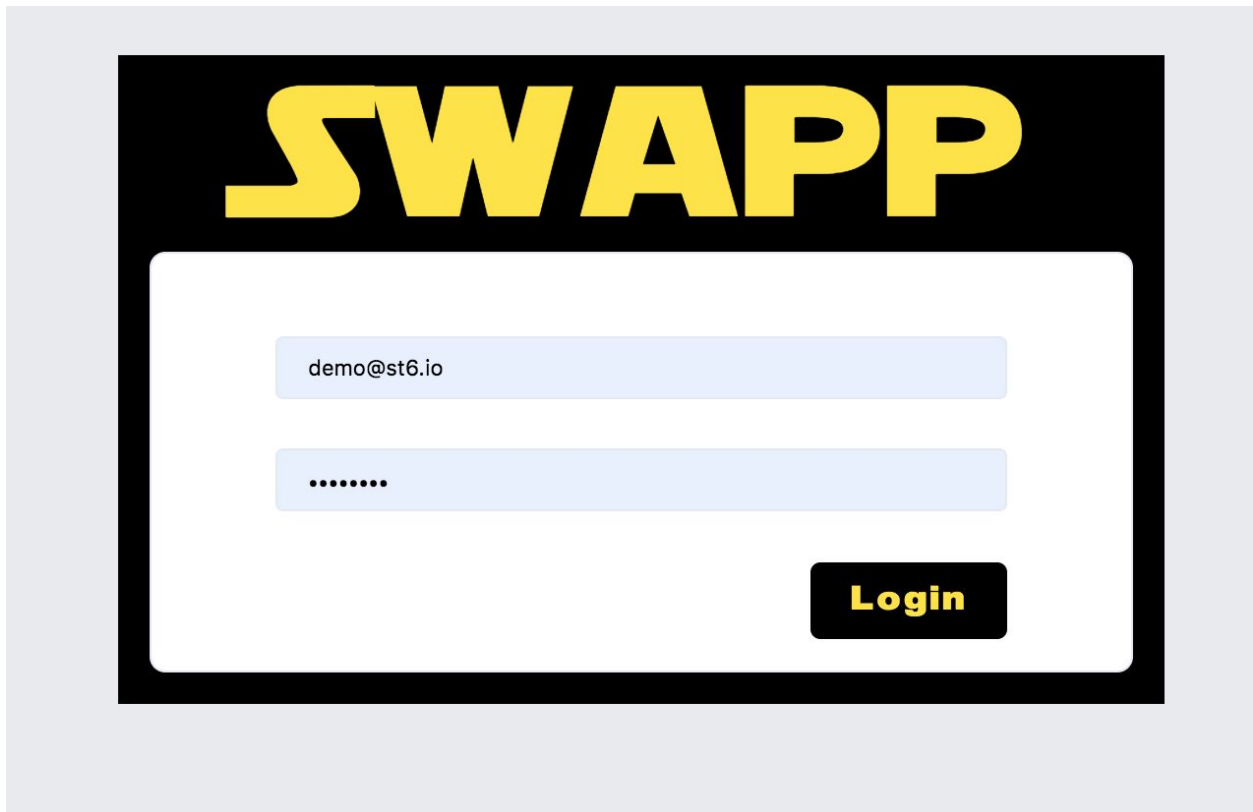
Test Requirements

- Code coverage should be as high as you can make it. 100% Code Coverage would earn you bonus points

CI/CD Requirements

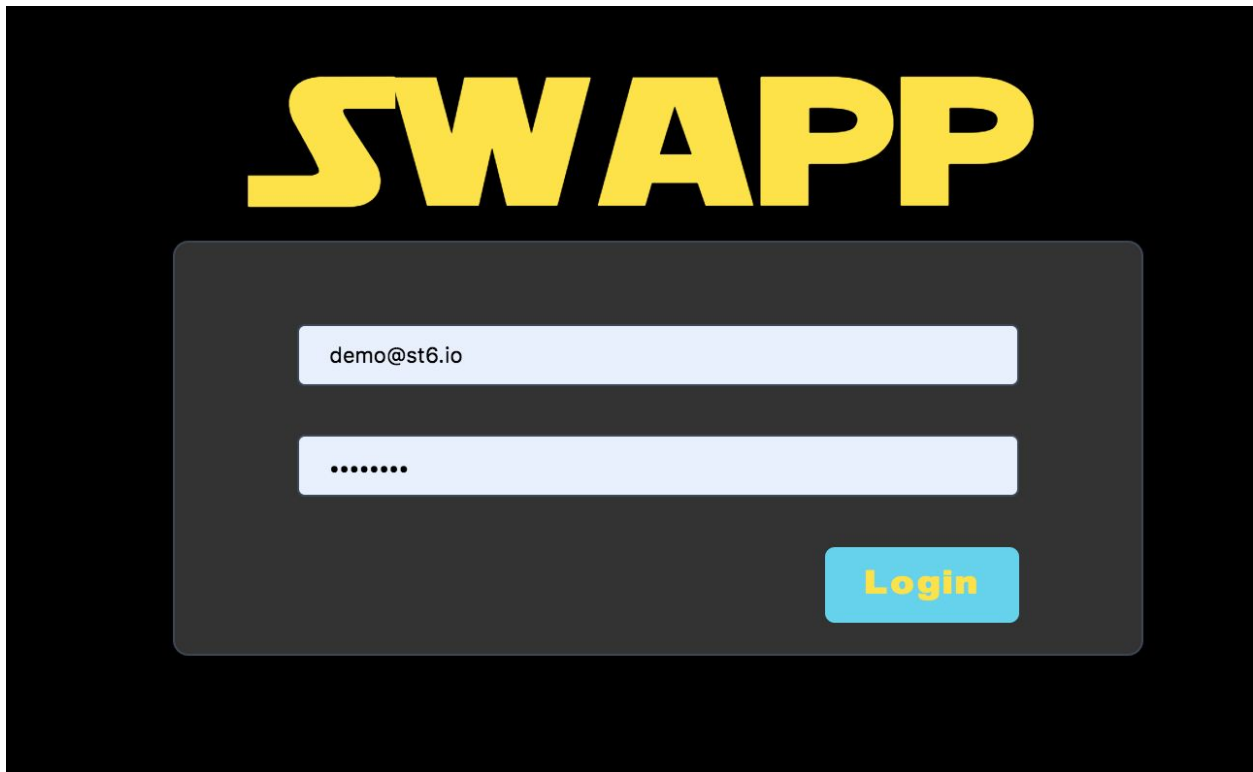
- CI must be run on each Pull Request
- Merge into *master* branch should trigger CD and the web app should be deployed.

Login Page



The image shows a login form for 'SWAPP' on a white background with a black border. The title 'SWAPP' is in large, bold, yellow letters at the top. Below it, there are two light blue input fields. The first field contains the email address 'demo@st6.io'. The second field contains seven dots, representing a password. To the right of the input fields is a black button with the word 'Login' in yellow text.

SWAPP

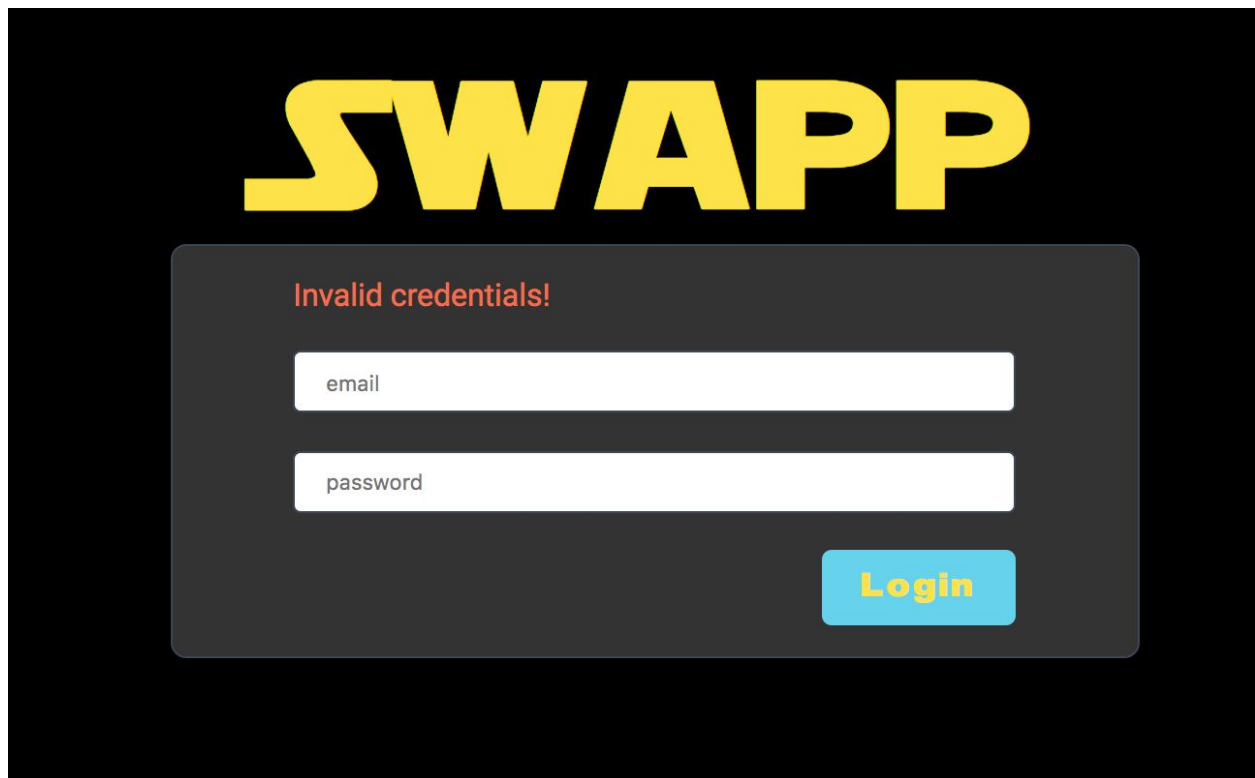
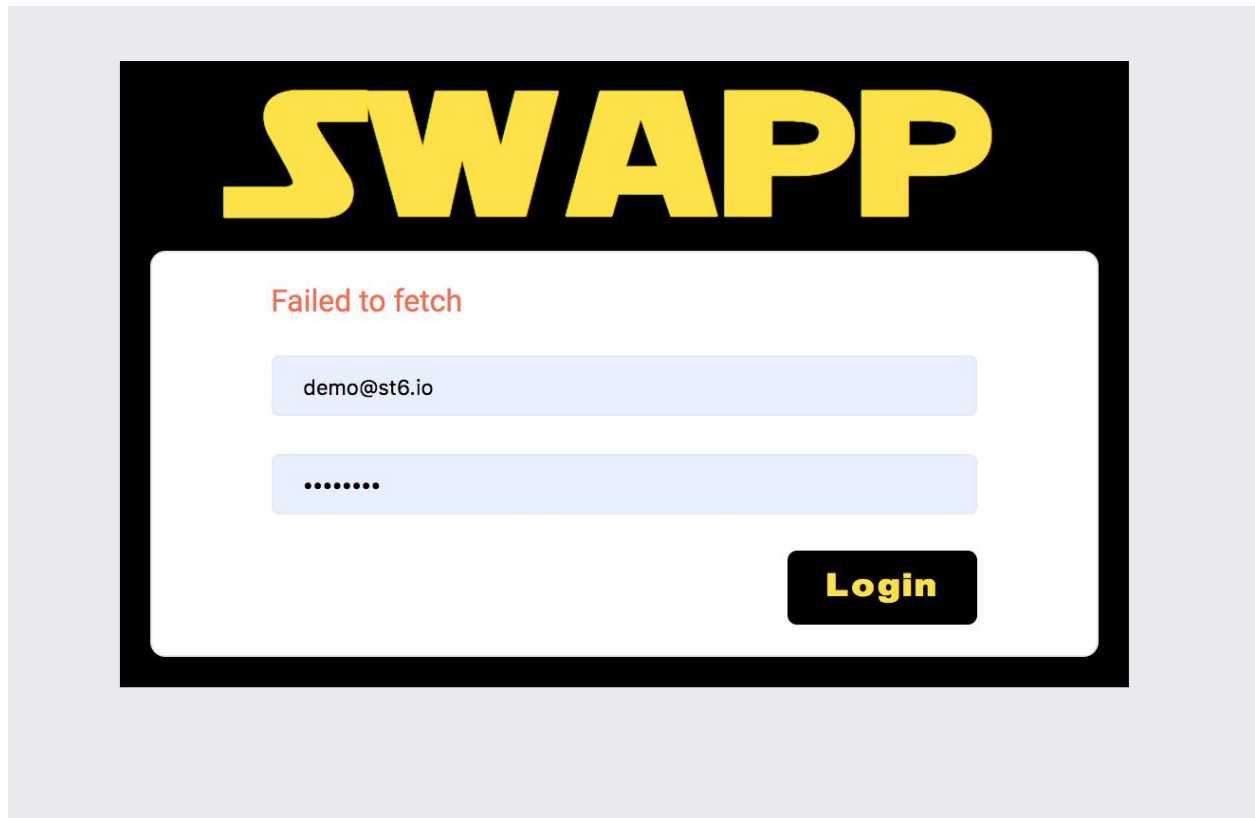
Login

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SWAPP

Login

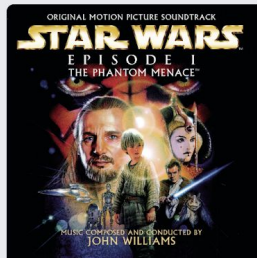
Login Error



Episodes Page

SWAPP

[Episodes](#) [Characters](#)



The Phantom Menace

Turmoil has engulfed the Galactic Republic. The taxation of trade routes to outlying star systems is in dispute. Hoping to resolve the matter with a blockade of deadly battleships, the greedy ...



Attack of the Clones

There is unrest in the Galactic Senate. Several thousand solar systems have declared their intentions to leave the Republic. This separatist movement, under the leadership of the mysterious Co...



Revenge of the Sith

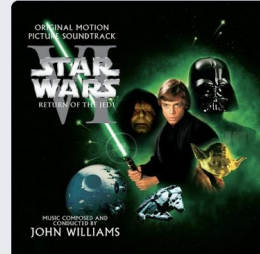
War! The Republic is crumbling under attacks by the ruthless Sith Lord, Count Dooku. There are heroes on both sides. Evil is everywhere. In a stunning move, the fiendish droid leader, General Co...



A New Hope



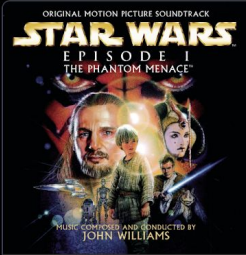
The Empire



Return of the

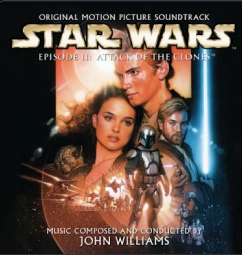
SWAPP

[Episodes](#) [Characters](#)



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Episode Page

SWAPP

Episodes Characters



Star Wars: Episode I The Phantom Menace

Turmoil has engulfed the Galactic Republic. The taxation of trade routes to outlying star systems is in dispute. Hoping to resolve the matter with a blockade of deadly battleships, the greedy Trade Federation has stopped all shipping to the small planet of Naboo. While the Congress of the Republic endlessly debates this alarming chain of events, the Supreme Chancellor has secretly dispatched two Jedi Knights, the guardians of peace and justice in the galaxy, to settle the conflict...

Director: [George Lucas](#)

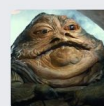
Release Date: [1999-05-19](#)



Obi-Wan
Kenobi



Anakin
Skywalker



Jabba
Desilijic
Tiure



C-3PO



Yoda

[Load More](#)

SWAPP

Episodes Characters



Star Wars: Episode I The Phantom Menace

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Obi-Wan
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C-3PO




Yoda


[Load More](#)


Characters Page


SWAPP


Episodes Characters


 Luke Skywalker


 Obi-Wan Kenobi


 Anakin Skywalker


 Wilhuff Tarkin


 Chewbacca


 Han Solo


 Greedo

 Jabba Desilijic Tiure

 Wedge Antilles

 Jek Tono Porkins


 C-3PO


 Yoda


Load More


SWAPP


Episodes Characters


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 Wilhuff Tarkin


 Chewbacca


 Han Solo


 Greedo

 Jabba Desilijic Tiure

 Wedge Antilles

 Jek Tono Porkins

 C-3PO

 Yoda

Load More



Obi-Wan Kenobi

Obi-Wan Kenobi



Height: 182
Weight: 77
Species: Human
Home World: Stewjon

Piloted Starships



Jedi starfighter

Trade Federation
cruiser

Naboo star skiff



Jedi Interceptor



Belbullab-22 starfighter



Obi-Wan Kenobi

Obi-Wan Kenobi



Height: 182
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Piloted Starships



Jedi starfighter

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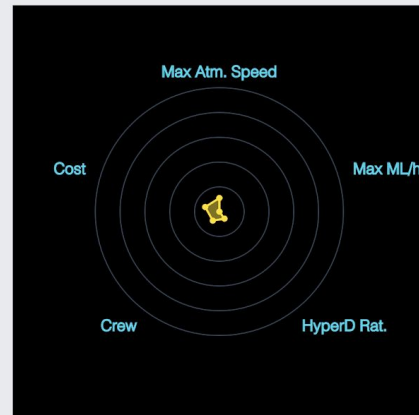
Jedi starfighter (Delta-7 Aethersprite-class interceptor)

Jedi starfighter



Class: **starfighter**
 Cost: **180000 credits**
 Crew: **1**
 Max Atmospheric Speed: **1150**
 Hyperdrive Rating: **1**

Compared to Starship Class Max



Jedi starfighter (Delta-7 Aethersprite-class interceptor)

Jedi starfighter

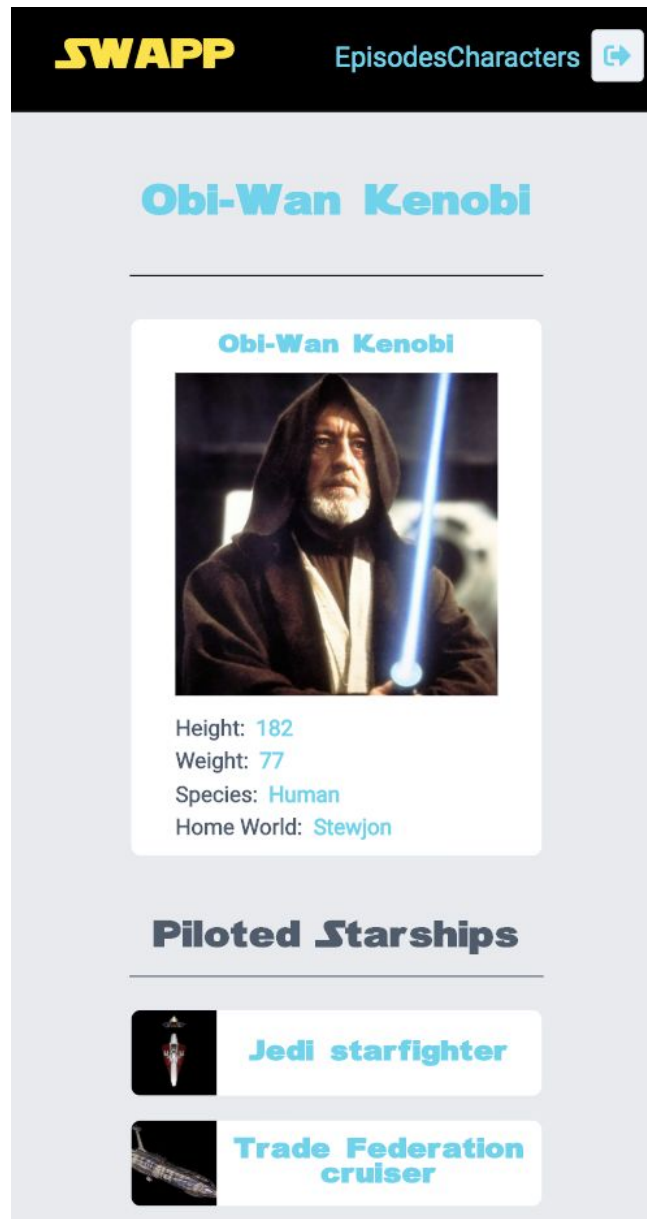


Class: **starfighter**
 Cost: **180000 credits**
 Crew: **1**
 Max Atmospheric Speed: **1150**
 Hyperdrive Rating: **1**

Compared to Starship Class Max



Responsive Design Examples



Small Device Screen



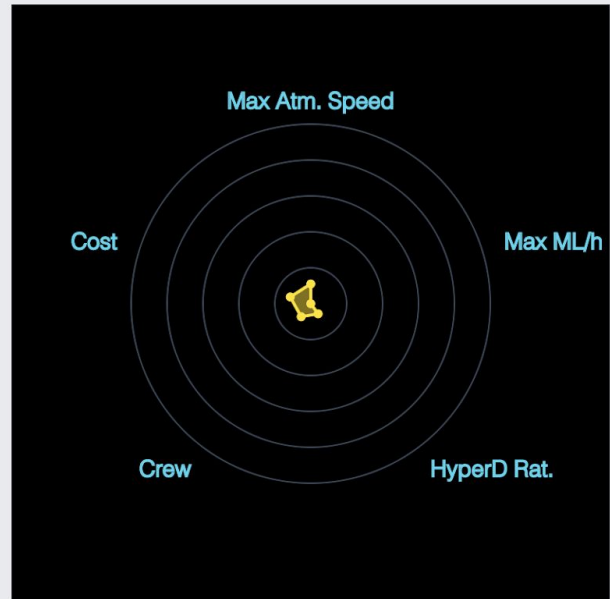
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Jedi starfighter



Class: **starfighter**
 Cost: **180000 credits**
 Crew: **1**
 Max Atmospheric Speed: **1150**
 Hyperdrive Rating: **1**

Compared to Starship Class Max

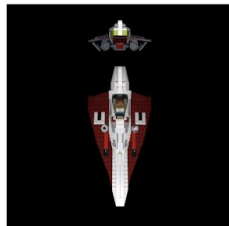


Medium Device Screen



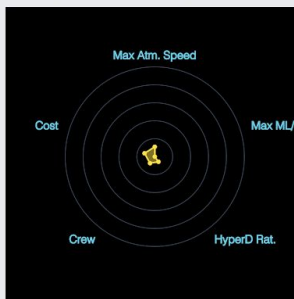
Jedi starfighter (Delta-7 Aethersprite-class interceptor)

Jedi starfighter



Class: **starfighter**
 Cost: **180000 credits**
 Crew: **1**
 Max Atmospheric Speed: **1150**
 Hyperdrive Rating: **1**

Compared to Starship Class Max



Large Device Screen