

# Labs: JavaScript

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## 1 First steps with JavaScript

1. Take a look at the shown example(s).
2. Similarly, create your own example for managing passengers. The information below will guide you through each step.
3. Create a constructor function for *Passenger*. These should have the following properties: *id*, *firstName*, *lastName*.
4. Create a constructor function named *PassengerManager*. This should manage passengers in an array and grant access to them. This array should be able to be passed. The *PassengerManager* shall have the following methods:
5. Erstellen Sie eine Konstruktorfunktion mit dem Namen *PassengerManager*. Diese soll Passagiere in einem Array verwalten und darauf Zugriff gewähren. Dieses Array soll übergeben werden können. Der *PassengerManager* soll die folgenden Methoden aufweisen:
  - *add* – add passenger
  - *getById* – get passenger by id
  - *getByName* – get passenger by last name
  - *count* – Return number of managed passengers
6. Test your solution.

## 2 Details of JavaScript

1. Extend your example with an *ExtendedPassengerManager*. This should also have an *update* method and its *add* method should check whether an entry with the specified *id* already exists. In this case, *add* should throw an exception.
2. Test your solution.
3. Bonus: Set up a module for your solution (without *import* and *export*).
4. Test your solution.