

We need to create an admin-panel for a company that provides bicycle booking services.

**The functionality is quite simple:**

- user can add a bicycle with fields (ID, name, type, color, wheel size, price, description)
- added bicycle is displayed on the list of bicycles
- user can change status of the bicycle (available/busy/unavailable)
- user can remove bicycle
- user can check stats on bicycles (number of bicycles, number of available bicycles, number of booked bicycles, avg price of a bicycle)

The task may differ depending on your skills. Please choose one which you prefer (Frontend, Backend or Fullstack solution).

**GENERAL REQUIREMENTS:**

1. Create form data validation:
  - All text fields minimum length should be 5 characters
  - All number fields should accept only number
  - All fields are required
  - All Bike IDs should be unique
2. An app should be pushed to public **GitHub** repository with README-instructions describing how one can start it in development mode

**FRONTEND SOLUTION REQUIREMENTS:**

If you are a frontend developer, please store data to the local-storage and perform all the calculations on the frontend.

1. Create **React** app according to provided design in Figma
2. Components should be reactively updated
3. Create form data validation on frontend
4. Store all data in local using: [LocalForage NPM package](#)

**BACKEND SOLUTION REQUIREMENTS:**

If you are a backend developer, you need to build a REST-API that allows storing data mentioned and to calculate stats.

1. The app should also contain a set of Postman-queries for testing purposes.
2. Create form data validation on backend
3. Use **Express** to build REST-API that satisfies the app functionality
4. Use **MongoDB** to store data

**FULLSTACK SOLUTION REQUIREMENTS:**

If you are a fullstack developer, you need to build both a REST-API that allows storing data mentioned and to calculate stats. And a frontend React-app that uses this API.

1. Data validation can be created where you prefer (frontend or backend)

- [Design](#)
- *Link to repository should be submitted via [Form](#).  
Candidates that were able also to deploy an app to a publicly-available server would be preferred.*
- Deadline for submissions is on **August 4th 2021**.