

Android [*humanoid robot*] Manager

Application Goals

- register Androids living among humans
- assign Androids to a suitable job

Application Functionality

1. The **Operator** of the application is a main user of the application. There can be an infinite number of **Operators**. Can be created manually.
 - The **Operator** should be able to login to the application.
2. The **Operator** can create/read/update/delete (CRUD) **Jobs** or **Androids**.
3. **Job** includes:
 - *name* (Alphanumeric, hyphen | min-length: 2, max-length: 16)
 - *description* (max-length: 255)
 - *complexity* level (for future statistics purposes)
4. **Android** includes:
 - *name* (Alphanumeric, hyphen | min-length: 5, max-length: 24)
 - *avatar*
 - *skills* (list of tags)
 - *reliability* (default value is 10), decreasing every time when **Job** is changed.
When reaches 0 change **Android status** to 0
 - *status* (1 or 0, 0 means **Android** should be reclaimed)
5. **Operator** should have an ability to CRUD **Android** and **Job** via user interface
6. **Operator** should have an ability to assign **Android** to **Job**.
7. On the **Job** page there should be a list of assigned **Androids**.



Application Requirements

1. The whole user interface of the application should be developed in English (Cyrillic support is not necessary).
2. The user interface of the application should be user friendly and efficient. That means **Operators** can quickly perform required actions without discomfort.
3. The system should be implemented as a web-application. You can use one of the next technologies:
 - 1) .NET (MVC, Core, etc.);
 - 2) JavaScript (AngularJS, Node.js, React, etc.);
 - 3) Combination of .NET and JavaScript.

How we assess

Your work will be assessed based on the following criteria:

- Code structure and object model usage
- Usability of application user interface
- Application data structure and data processing
- Error handling and validation of user data

How to send work results

The results of the work should include the source code of the application, a database dump, short instructions about setting up and execution of the application. They should be uploaded to your personal (free) account at GitHub (<https://github.com/>). As a result, you should send us the link to the source code repository.

And remember: together we can build a better world. Long live and prosper.

