

Hospital simulator

The web service simulates a hospital with the following resources:

- **Rooms:** a room has a name and an optional machineId.
- **Treatment Machines:** a treatment machine has a name and a capability. The capability can be *Advanced* or *Simple*.
- **Doctors:** a doctor has a name, an imageId and a set of roles. A role can be *Oncologist* or *General Practitioner*.
- **Patients:** a patient has a name, imageId and a condition. A condition can be *breastcancer*, *headandneckcancer* or *flu*.
- **Consultations:** a consultation record has a patientId, doctorId, roomId, registration date and consultation date.
- **Images:** an image has a url. This url references an image hosted on some other server. For this test any publicly accessible url is ok.

Each day, a number of patients are registered at the hospital. When a patient is registered, a consultation is scheduled. A *breast/headandneckcancer* patient will be scheduled with an *Oncologist* in a room with a treatment machine. Patients with *headandneckcancer* will be scheduled in a room with an *Advanced* treatment machine. Patients with condition *flu* will be scheduled with a *General Practitioner* in any room.

The provided web service implementation has a number of pre-defined doctors, images, rooms and treatment machines.

Endpoints

Url	Request methods	JSON body
/patients	GET, GET/:id, POST	{id, name, condition, imageId} (Patient id is generated and returned from the post)
/images	GET, GET/:id, POST	{id, url} (Image id is generated and returned from the post)
/consultations	GET, GET/:id	{id, registrationDate, patientId, doctorId, roomId, consultationDate}
/doctors	GET, GET/:id	{id, name, roles, imageId}
/rooms	GET, GET/:id	{id, name, treatmentMachineId}
/machines	GET, GET/:id	{id, name, capability}

Task

Build a front end with the following features:

- It should be possible to register a new patient with name and image.
- It should be possible to list scheduled consultations for a given consultation date. The patient name should be displayed.
- It should be possible to select a consultation and view detailed information. The information should include patient name, patient image, patient condition, doctor name, doctor roles, doctor image, room name, treatment machine name, machine capability, registration date and consultation date.

Web service installation

1. Install Node
2. Install the server with the command: `npm install testserver.tgz`
3. Run the server with the command: `node .\node_modules\frontend_test\build\app.js`