

User Stories

Outline:

1. Clinic Manager:

1.1. Appointment Types: (Name,Length)

1.1.1. Add\Edit\Delete appointment type.

1.2. Resource Scheduling (Location,Person,Appointment Type, Start time, End time)

1.2.1. Add resource. (Add Appointment Block)

1.2.2. Edit\Delete resource.

2. Receptionist:

2.1. Create Appointment

2.2. Queue Management

2.2.1. Check-In

2.2.2. Edit Appointment

2.2.3. Transfer

2.2.4. End Visit

2.3. Add Walk-In Appointment.

3. Clinician:

3.1. Queue Management

3.1.1. Start Consultation

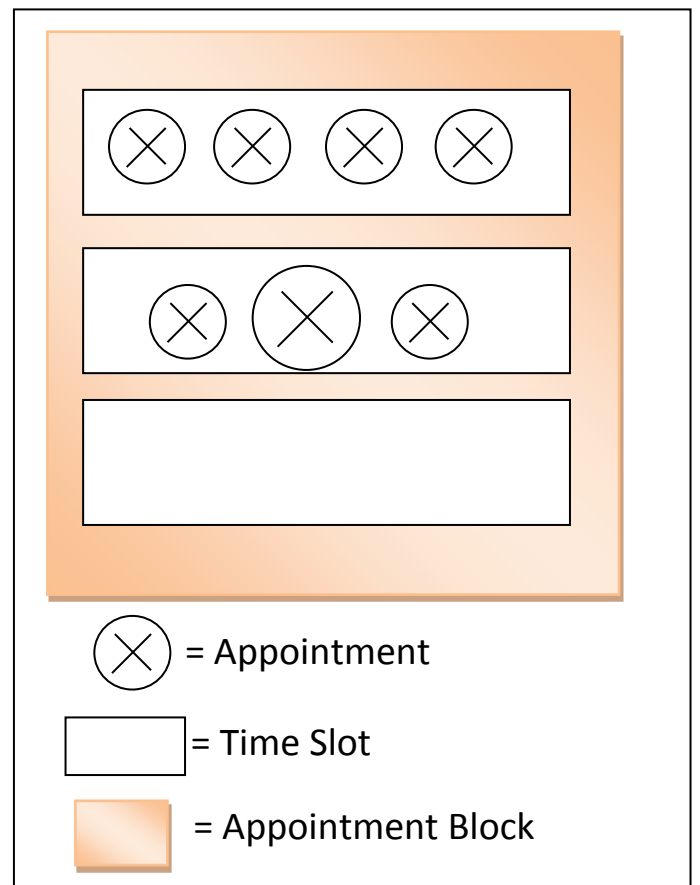
3.1.2. Transfer

3.1.3. End Visit

Terms:

- 1) **Appointment Block (Resource)** – Represents a time when a resource is available for booking. A resource could be defined as a doctor (**user**) or a location. In our implementation, an appointment block represents a time interval in which a specific clinician gives different types of care in a specific location.
 - An appointment block can contain a several time slots in different lengths.
 - The appointments within can also have different lengths.
- 2) **Time Slot** – A single entry in the Appointment Block which represents a specific/atomic time interval in which appointments can be made.
 - An appointment block can contain a several time slots in different lengths.
 - The appointments within can also have different lengths.
- 3) **Appointment:** a future time within a time slot when a patient is scheduled to utilize a resource.
- 4) **Appointment Status:**
 - Scheduled: A future appointment.
 - Waiting: The patient for this appointment arrived to the clinic.
 - Cancelled by the patient: The patient cancelled the appointment.
 - Cancelled by the clinic: The appointment was cancelled by the clinic.
 - In-Consultation: The appointment is currently taking place.
 - Waiting for <doctor>: The patient was transferred to a different doctor.

12/08/2012 Dr. <u>Shmilovich</u> (Room 1)	
Time	Event
1 pm	
2pm	Patient: <u>Yonatan Grinberg</u> (Physiotherapy)
3pm	
4pm	
5pm	



User Stories:

Clinic Manager:

1. Appointment Types: (Name,Length)

1.1. Add/Edit/Delete appointment type.

- Create a page that shows all different appointment types
 - The information should be displayed similar to the balsamiq mockup
 - This page should be a link from the OpenMRS Administration page for this module
 - The functionality of the add/edit/delete buttons is as follows:
 - Add button:
 - Popup the balsamiq mockup
 - Edit button
 - Same balsamiq mockup with the values pre-defined
 - Delete button
 - Remove the selected appointment types.
- *We might decide to use a prediction algorithm in order to suggest appointment duration based on this appointment type history.*

2. Resource Scheduling (Location,Person,Appointment Type, Start time, End time)

2.1. Create a page that displays the appointment blocks for a single day and location

2.1.1. Refer to the balsamiq mockup for guidance

2.1.2. There should be buttons to move forward and back one day or select the day using a calendar widget

2.1.3. The location drop-down will allow the user to select a parent location based on the OpenMRS location hierarchy. All appoint blocks for the child locations should be shown in the table.

2.1.4. The button for Add resource should display a window/popup/page that allows the user to define an appointment block, see balsamiq mockup

2.1.5. The edit button will be the same as the add button with defaults pre-defined.

2.1.5.1. If the system detects that an appointment is scheduled during the block that was changed:

2.1.5.1.1. Those appointments should be canceled.

2.1.5.1.2. The user should be notified which appointments were canceled, the name of the patient, and the patient's telephone number

2.1.5.1.3. The report should also contain suggestions for rescheduling times for these patients.

2.1.6. The delete button will allow appointment blocks that are selected to be removed, see behavior for "edit button" (2.1.5.1.x)

Receptionist:

3. Create Appointment

Create a page that allows scheduling a new meeting, the functionality will be as follows:

- 3.1. Look up the patient using search, select an appointment type (Optionally: select a clinician and a date range for the meeting).
- 3.2. Afterwards, pressing the "Find Next Appointment Time" will present a list of available dates for the appointment, based on the constraints defined.
- 3.3. Select a suitable date and click "Save" to confirm selection.
- 3.4. This page should allow the user to input some comments before saving.

4. Queue Management

Create a page that allows viewing and updating of scheduled appointments in a selected date, in a specific location.

- 4.1. This page should contain a "tab controller" (see balsamiq) that allows switching between different queues, and viewing on each queue the list of scheduled appointments for the selected day.
Each row that represents a scheduled appointment should contain: Time/Time Slot, Name of the patient and the current status of the appointment.
- 4.2. This page should allow changing the selected date and location.
- 4.3. This page should include a button that allows scheduling a new appointment (See Section 3), and a Walk-In appointment (See Section 5)
- 4.4. This page should include several buttons that allows changing the appointment status, clicking on each of the buttons will open the relevant dialog.
 - Optionally: more generalized – one button "change status", this way we'll allow adding more appointment statuses without changing the UI.

5. Add Walk-In Appointment.

Create a page that allows creating an appointment for a patient that didn't scheduled an appointment.

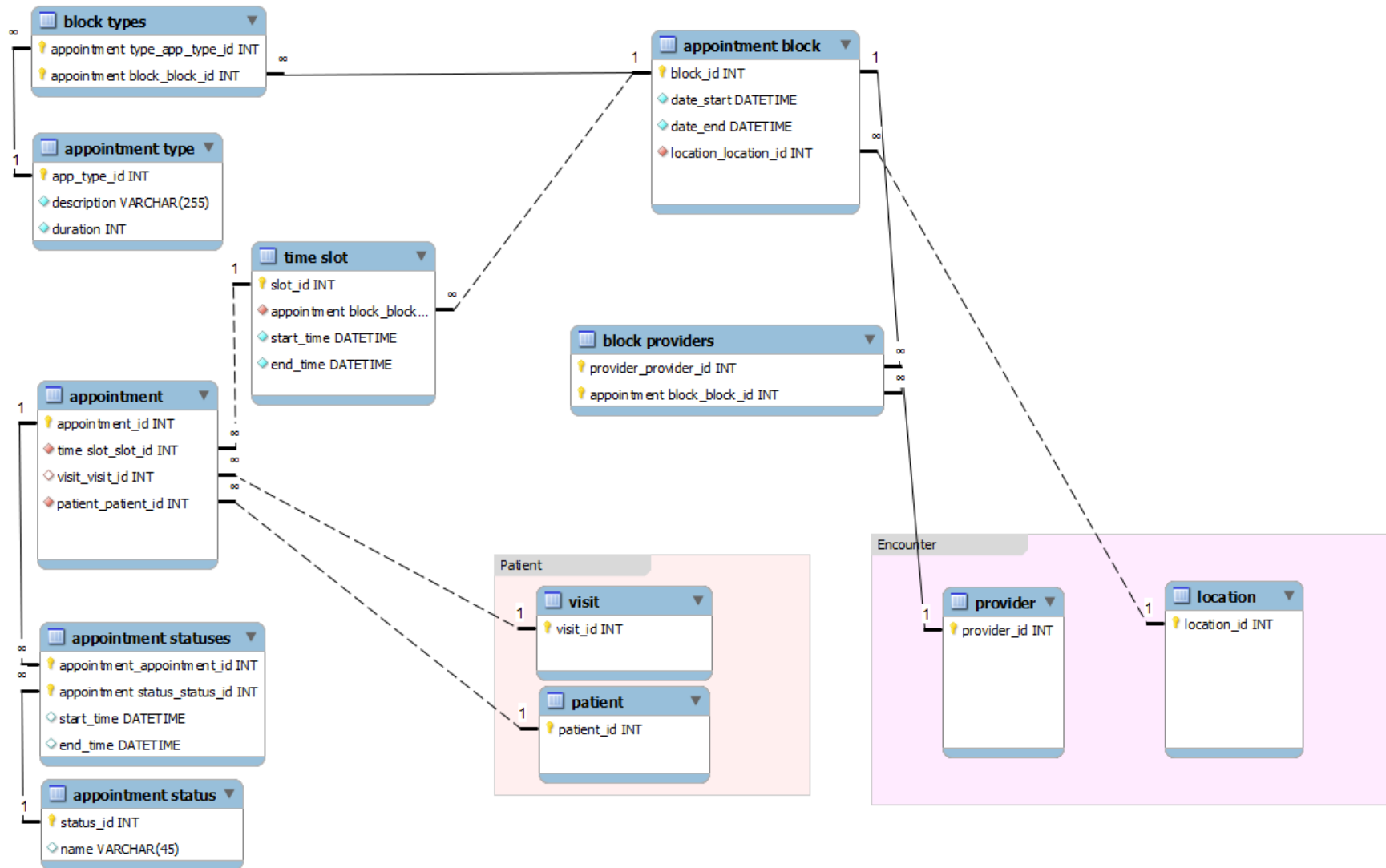
This page is similar to create appointment (See Section 3), the difference is that instead of suggesting dates we will add this appointment within a time slot that has free space.

Clinician:

6. Queue Management

Similarly to Section 4, without the ability to change location.

EER Diagram:



Assumptions (to be updated):

1. Use OpenMRS location hierarchy.