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# Must Have

## General

- M.0.1 Java stand-alone software application
- M.0.2 No crashes

## UML

- M.1.0 UML Diagram of system
- M.1.1 all classes
- M.1.2 all relationships
- M.1.3 all interfaces
- M.1.4 data structures
- M.1.5 PDF file
- M.1.6 UML 2.0 Standard

## IDE

- M.2.0 Netbeans GUI
- M.2.1 provide functionality listed below in Functionality
- M.2.2 appropriate GUI for each part of the system

## GIT

- M.3.0 Git Version control
- M.3.1 Incremental development
- M.3.2 3<sup>rd</sup> party resources formally credited in README file
- M.3.3 commits appropriately commented

## Testing

- M.4.0 JUnit Tests
- M.4.1 object relationships and methods
- M.4.2 appropriate Java Test annotations
- M.4.3 test areas where data is changed or stored

## Design Patterns

- M.5.0
- M.5.1 Follow MVC (Model View Controller) Pattern
- M.5.2 Another design pattern TBD
- M.5.3 Another design pattern TBD

## Data

- M.6.0 Data is saved to a
- M.6.1 text file, or
- M.6.2 JSON file, or
- M.6.3 XML file, or
- M.6.4 custom layout

## Coursework Submission

- M.7.0
- M.7.1 upload to DLE
- M.7.2 URL Links

- M.7.2.1 Project Management
- M.7.2.2 Repository
- M.7.2.3 YouTube
- M.7.3 a .zip folder including
- M.7.3.1 a working executable
- M.7.3.2 text file with link to GitHub Repository

## **Functionality**

- M.8.0
- M.8.0.1 Requests or notifications appear as a message on log in.
- M.8.0.2 record all appointments
- M.8.0.2.1 patient specific notes
- M.8.0.2.2 prescriptions

## ***All Users***

- M.8.1
- M.8.1.1 Log in to the system using unique ID and password, and perform user-specific functionalities
- M.8.1.2 Identifiable with
- M.8.1.2.1 a given name
- M.8.1.2.2 Surname
- M.8.1.2.3 Address
- M.8.1.2.4 Unique ID Number
- M.8.1.3 Must have
- M.8.1.3.1 Age
- M.8.1.3.2 Gender

## ***Patient***

- M.8.2
- M.8.2.1 Request to create account – this requires approval from a secretary
- M.8.2.2 Rate doctors and provide feedback messages.
- M.8.2.3 View doctors' ratings
- M.8.2.4 Request appointment – there should be an avenue to ask for a specific doctor and a range of potential dates.
- M.8.2.5 View his or her own history.
- M.8.2.6 View appointment.
- M.8.2.7 View prescription.
- M.8.2.8 Request account termination.

## ***Administrator***

- M.8.3
- M.8.3.1 Create own account.
- M.8.3.2 Add or remove doctor and secretary accounts
- M.8.3.3 View the ratings of the doctors
- M.8.3.4 Provide feedback to each doctor based on ratings and comments from patients.
- M.8.3.5 CANNOT access individual patient record

## ***Secretary***

- M.8.4
- M.8.4.1 Approve patient accounts.
- M.8.4.2 Receive requests for appointments.

- M.8.4.3 Create an appointment between a patient and a free doctor.
- M.8.4.4 Give medicines to patients if available
- M.8.4.5 Order and stock medicines if necessary
- M.8.4.6 Remove patients
- M.8.4.7 Approve account removal request from patients.
- M.8.4.8 CANNOT access individual patient record
- M.8.4.9 Update medicine stock
- M.8.4.10 if no stock, then stock patient to be notified

### ***Doctor***

- M.8.5
- M.8.5.1 View appointments.
- M.8.5.2 Make notes during a consultation.
- M.8.5.3 Inspect patient history.
- M.8.5.4 Propose and create future appointments for a specific patient.
- M.8.5.5 Prescribe medicines and dosages
- M.8.5.6 Create new medicines and request secretaries to order these

### ***User Identification***

- M.8.6
- M.8.6.1 First Letter according to role
  - M.8.6.1.1 Admin – A
  - M.8.6.1.2 Doctor – D
  - M.8.6.1.3 Patient – P
  - M.8.6.1.4 Secretary – S
- M.8.6.2 Then four unique digits

### ***Other Criteria***

- M.8.7
- M.8.7.1 Populate system with at least
  - M.8.7.1.2 1 x administrator
  - M.8.7.1.3 3 x doctors
  - M.8.7.1.4 3 x patients
  - M.8.7.1.5 1 x secretaries
  - M.8.7.1.6 10 x different medicine products

**Should Have**

**Could Have**

**Won't Have**

W.0 Database

# Change Log

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