**Functional Requirements - High Level Use Cases**

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| **Use Case 1** | Maintain Hospital Information |
| **Actor(s)** | Website Administrator |
| **Description** | Website administrator has to log into his account and select to add or change information of hospitals and doctors. A list of government hospitals will be shown. If he chooses to add a new hospital, the new hospital’s image, name, address and phone number are required. A hospital ID will be generated automatically. If the hospital exists, the admin will choose the hospital by clicking on it in order to modify it. A list of doctors who are working under the hospital will be listed out. Admin can then choose to modify existing doctors or add new doctor(s). Doctor’s name and specialization are required for each doctor. A doctor ID will be generated. Each doctor may have or have not a list of achievements. |

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| **Use Case 2** | Register Account |
| **Actor(s)** | Patient/Doctor |
| **Description** | User selects whether they wish to register as a Patient or a Doctor. Both types have to enter their username, password, full name, email and phone number. If it is a doctor, license number and specialization is required. User ID will be automatically-generated for both cases. Once the account is registered, they are able to log into their account. |

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| **Use Case 3** | View Hospital Information |
| **Actor(s)** | Patient |
| **Description** | When patient enters the webpage, hospitals will be shown according to their respective location (state). The patient can click on the hospital of interest in order to obtain further information. A list of doctors who are working under that particular hospital will be shown. Each doctor’s name and specialization can be viewed in this page. Patient can then select a doctor by clicking on it to view his/her list of achievements. |

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| **Use Case 4** | Create Appointment |
| **Actor(s)** | Patient |
| **Description** | This use case should include the use case-View Hospital Information. Patient needs to log in using the username and password. At the doctor’s information page, patient can select to make an appointment with that doctor. Firstly, patient is required to select a date. After that, a list of available time slots of that particular doctor will be shown. The patient then selects an available time slot for consultation. After the patient confirmed it, an appointment is created. Date and time will be recorded based on what patient has selected. Status is set to ‘Confirmed’. Appointment ID will be automatically-generated. A confirmation email is sent. A reminder will be sent to patient a day before the appointment via email. |

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| **Use Case 5** | View Appointment |
| **Actor(s)** | Doctor |
| **Description** | Doctor must login to view all the appointments assigned to him. When the doctor clicks on the “View Appointment” button, a list of appointments will be shown chronologically. When a doctor clicks on one appointment, the details of the appointment will be shown. |

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| **Use Case 6** | Modify Appointment |
| **Actor(s)** | Doctor |
| **Description** | This use case should include the use case-View Appointment. After clicking on one particular appointment, doctor can change the date and time if something came up. Another email will then be sent to notify the respective patient. The patient can choose to accept the updated date and time of appointment or to cancel the appointment. If the appointment is cancelled, the status will be updated to ‘Cancelled’. Nurses can close the appointment when the patient has arrived. The status will then be set to “Completed”. |

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| **Use Case 7** | Create Prescription and Medication |
| **Actor(s)** | Doctor |
| **Description** | Doctor must login to his account. When a doctor finished consulting a patient, he will write down the diagnosis. A diagnosis has ID, remark, date and time. It will be linked to the patient and the doctor. The doctor then will decide on what medicine to prescribe for that patient by clicking on them and amount to prescribe. Those medicines will be linked to that diagnosis. The medicine details with diagnosisID will be sent to the patient via email. With the diagnosisID, the patient can purchase the medicine online and collect it from the pharmacy counters. |

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| **Use Case 8** | Purchase Prescribed Medicine |
| **Actor(s)** | Patient |
| **Description** | Patient needs to log in using the username and password. When the patient clicked on “Purchase Prescribed Medicine” button, a diagnosisID is required in order to continue. A system will search for the particular diagnosis stored in the database. A purchase record is created and linked to the diagnosis and patient. Date and time of purchase is recorded. Status will be set to ‘Preparing’. When the medicine is ready, the pharmacist will change the status to “Ready” and patient will therefore receive an email to pick up the medicine and pay on spot. After the patient has collected and paid, the hospital clerk will update the purchase status to ‘Collected’. |