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| **Use Case** | Register in Application | |
| **Scenario** | User will register in the application | |
| **Triggering Event** | User wants to register in the application | |
| **Brief Description** | The user will input details to support his registration | |
| **Actor** | User (Dermatologist, Patient) | |
| **Related Use Cases** | User Logs-in | |
| **Stakeholder** | User (Patient, Dermatologist) | |
| **Pre-Condition** |  | |
| **Post-Condition** | Registered User | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1. User inputs basic information | 1.1. System will record basic data such as Name, (Clinic) Address, Telephone Number, Cellphone Number, Email Address, Birthdate, Gender, Etc. |
|  | 2. User inputs username | 2.1. System will evaluate username uniqueness |
|  | 3. User inputs password | 3.1. System will evaluate password Strength |
|  | 4. Email Authentication | 4.1. System will send an email authentication using the email input in basic data. (System activity 1.1.) |
|  | 5. Successful Registration | 5.1. System will move the newly registered user's information to the main database |
| **Exception Conditions** |  | |

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| **Use Case** | Search for Dermatologist | |
| **Scenario** | The patient will look for nearby Derma Clinics | |
| **Triggering Event** | Patient needs to see a doctor | |
| **Brief Description** | The patient will look for a derma that is near his location and check the availability of the dermatologist | |
| **Actor** | Patient | |
| **Related Use Cases** |  | |
| **Stakeholder** | Patient | |
| **Pre-Condition** | Register in the Application | |
| **Post-Condition** | Choose a Dermatologist | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1. Ask the Patient to turn on his GPS to track his current location | 1.1 System will check database for nearby Dermatologists |
|  |  | 1.2. System will list all nearby Dermatologists |
|  | 2. User will review the information about the dermatologists that are available in the location | 2.1. System will let the patient choose among the dermatologist in the location |
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| **Exception Conditions** | If there are no dermatologists within a 1000km radius, the system will display "There are no nearby Dermatologists" and will suggest dermatologists with the highest contact rate | |

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| **Use Case** | View Dermatologist | |
| **Scenario** | User wants to view the details of the dermatologist | |
| **Triggering Event** | Look for optimal dermatologist | |
| **Brief Description** | User can view the details of a dermatologist, including the location of his clinic | |
| **Actor** | Patient | |
| **Related Use Cases** | View Patient | |
| **Stakeholder** | Patient, Dermatologist | |
| **Pre-Condition** | Search for Dermatologist | |
| **Post-Condition** |  | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1. Patient will choose a dermatologist | 1.1 System will get details of the dermatologist from the database |
|  |  | 1.2 System will list the details of the dermatologist. Example: Name, Clinic Address, Contact Number, and Schedule |
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| **Exception Conditions** |  | |

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| **Use Case** | Schedule an appointment | |
| **Scenario** | The patient will set an appointment with the dermatologist | |
| **Triggering Event** | The patient wants to set an appointment with the dermatologist | |
| **Brief Description** | The patient will insert a time and date for an appointment | |
| **Actor** | Patient | |
| **Related Use Cases** | Alter an Appointment | |
| **Stakeholder** | Patient, Dermatologist | |
| **Pre-Condition** | Search Dermatologist | |
| **Post-Condition** | Schedule appointment | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1. Patient inserts date and time of appointment | 1.1 System will check database for nearby Dermatologists |
|  |  | 1.2. System checks if the appointment is within operating hours |
|  |  | 1.3. System gets the dermatologists confirmation |
|  |  | 1.4. Inserts new schedule in the database |
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| **Exception Conditions** | If there are no dermatologists within a 1000km radius, the system will display "There are no nearby Dermatologists" and will suggest dermatologists with the highest contact rate | |

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| **Use Case** | Alter appointment | |
| **Scenario** | The Patient will edit his appointment | |
| **Triggering Event** | Patient needs to re-schedule or delete an appointment | |
| **Brief Description** | Patient will change the date or cancel an appointment | |
| **Actor** | Patient, Dermatologist | |
| **Related Use Cases** | Schedule Appointment | |
| **Stakeholder** | Patient, Dermatologist | |
| **Pre-Condition** | Schedule Appointment | |
| **Post-Condition** | Altered Appointment | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1. Patient chooses a scheduled appointment to be altered | 1.1. System displays a list of all upcoming scheduled appointments |
|  |  | 1.2. System will display additional information of the chosen scheduled appointment |
|  | 2. Patient inserts new time and/or date of the appointment | 2.1. System will check the dermatologist’s availability (if within operating hours) |
|  |  | 2.2. System will ask confirmation to the dermatologist |
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| **Exception Conditions** | If the new time and date is not within operating hours, the altering will not push through and will ask the patient to enter another time and date. | |

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| **Use Case** | View patient | |
| **Scenario** | Dermatologist will view his patient | |
| **Triggering Event** | Dermatologist needs to access the details of his patient | |
| **Brief Description** | Dermatologist can see details of the previous appointments of a patient and can view the information of the patient | |
| **Actor** | Patient, Dermatologist | |
| **Related Use Cases** | View Dermatologist | |
| **Stakeholder** | Dermatologist | |
| **Pre-Condition** | Schedule Appointment | |
| **Post-Condition** |  | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1. Dermatologist will click the patient that scheduled him | 1.1 System will get details of the patient from the database |
|  |  | 1.2 System will list the details of the patient. Example: Name, Contact Number, Address, sex, and scheduled appointment |
|  |  |  |
| **Exception Conditions** | If the new time and date is not within operating hours, the altering will not push through and will ask the patient to enter another time and date. | |

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| **Use Case** | Quantify Sweat | |
| **Scenario** | The Dermatologist will quantify sweat of patient | |
| **Triggering Event** | Appointment | |
| **Brief Description** | The dermatologist will quantify the sweat using the sudomotor in order to gain data | |
| **Actor** | Dermatologist, Patient | |
| **Related Use Cases** |  | |
| **Stakeholder** | Dermatologist | |
| **Pre-Condition** | Schedule Appointment | |
| **Post-Condition** |  | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1.1 Systen will quantify the sweat and give out data | 1.1 Systen will quantify the sweat and give out data |
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| **Exception Conditions** |  | |

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| **Use Case** | Insert Appointment Details | |
| **Scenario** | Dermatologist will record the events for the accomplished appointment | |
| **Triggering Event** | Accomplished appointment | |
| **Brief Description** | The dermatologist will make a summary of all the necessary details and information on the accomplished appointment | |
| **Actor** | Dermatologist | |
| **Related Use Cases** |  | |
| **Stakeholder** | Patient, Dermatologist | |
| **Pre-Condition** | Accomplished Appointment | |
| **Post-Condition** | Accomplished Appointment report | |
| **Flow of Activities** | **Actor** | **System** |
|  | 1. Derma will pick an appointment to add details to | 1.1. System will confirm if the appoitnment is accomplished (on time) |
|  | 2. Derma will input .png file of the sudomotor results | 2.1. System will store the .png file to the database |
|  |  | 2.2. System will process the data and categorize it into ranges; from mild to very severe |
|  | 3. Derma will input more details to support the appointment | 3.1. System will save the details in the database |
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| **Exception Conditions** |  | |