Use Case Specifications

Hawk+

Version 1.0

Revision History

Date	Version	Description	Author
10/1/2022	1	Use Case Specifications First Iteration	Srikar, Asrar, Sarah, Sakkrya

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Use Case Model

- ## Introduction
    - o JayHawk + is a Web Application system designed for multiple users to access and schedule appointments with Watkins Health Center. The Web application is designed to provide a centralized view by providing a user-friendly dashboard with user information, appointments, medications, labs, and procedures. *User types*: Users and Administrators. The *Users* would be the following: Students/Faculty and Watkins Health Center. The *Users* would be able to log in using the KU SSO, provided by KU IT, and access appointment information along with other important health references. The Users would be able to use a calendar-based system to view/book appointments based on the availability of the medical providers. The *Administrators* would be the Watkins Admin. The *Administrators* would monitor the booking system and manage any overlapping appointments as well as keeping heath records secure.

- ## General Actors Descriptions
    - o User
        - ▪ Students
            - • Students would log in using KUID and Password and schedule appointments
        - ▪ Faculty
            - • Faculty would login using KUID and Password and schedule appointments
    - o Administrators
        - ▪ Watkins Admin
            - • Watkins Admin would monitor the Web Application and update correct medical records for the individual users. They would be also involved in the maintenance and stability of the Web Application
    - o Watkins Health Care Provider
        - ▪ Medical Provider
            - • Would be able to view numerous bookings and monitor/manage them

Use Cases

- List of Use Cases
    - KU SSO
        - User will utilize KUID and Password to login to the Web Application
        - *Basic Flow:* The user proves their online KU ID and Password to the login interface and activates the login process. Once KU SSO validates the entries, then the user proceeds to the homepage of JayHawk+
        - *Alternative:* Throws an error if user enters a wrong username or password, asks user to enter information again
    - Choose Specialization
        - User will be able to choose a specific health care provider based on their need
        - *Basic Flow:* The user enters a valid specialization that dependent on their need
        - *Alternative:* The user does not choose any specialization
    - View Available Doctors
        - User can view a pertaining doctor based on the availability
        - *Basic Flow:* The user enters a valid doctor based on their listed availability
        - *Alternative:* Prompt a message if no doctors are available
    - View Dashboard and Profile
        - User can view their health records and patient information
        - *Basic Flow:* The user will be able to view their medical profile
        - *Alternative:* The user does not have an existing profile or its incomplete
    - Search Available Appointments
        - Search by date
            - User can schedule an appointment by date
            - *Basic Flow:* The users search a date they want to schedule an appointment
            - *Alternative:* The user searches an invalid date
        - Search by doctor
            - User can schedule an appointment based on a specific doctor
            - *Basic Flow:* The users search a specific doctor they want to schedule an appointment
            - *Alternative:* The user searches an invalid doctor
    - Book an Appointment
        - User will enter required information that is needed to book an appointment
            - *Basic Flow:* The users can book appointments by providing the required information
            - *Alternative:* The user inputs invalid information
    - Messaging
        - Users can chat with health care providers on real time basis
            - *Basic Flow:* The users can connect to a chat system and interact with health care providers on a real time basis
            - *Alternative:* None

- o Manage appointments
  - Cancel appointment
    - Users can cancel appointments
    - *Basic Flow:* The users cancel appointments prior to the appointment date/time
    - *Alternative:* Canceling at the time of appointment or after the appointment
  - Change appointment
    - Users can change their appointments
    - *Basic Flow:* The users can reschedule an existing appointment prior to the appointment date/time
    - *Alternative:* The user reschedules an appointment after the appointment date or at the time of the appointment
- o Confirmation
  - Users will be notified via text/email if their scheduling is successful
    - *Basic Flow:* Once the users confirm the booking, they are immediately notified via text/email
    - *Alternative:* User has invalid contact details or booking was unsuccessful
- o View/Update Patient's Record and Information
  - Administrators and Health Care Providers can view and update patient records and information
    - *Basic Flow:* The administrators or health care providers can view and update patient records
    - *Alternative:* If the user is a student or faculty member, they don't have right to update the information
- o Send Reminder to Patient
  - Administrators can notify patients on the status of upcoming appointments
    - *Basic Flow:* The administrators can notify patients before their upcoming appointments
    - *Alternative:* The user has provided invalid contact information
- o View all Appointments for Specific Doctor
  - Administrators and Health Care Providers can view all the appointments made by users
    - *Basic Flow:* The administrators and healthcare providers can view all scheduled appointments made by users
    - *Alternative:* No scheduled appointments made by users

- UML Diagram