**Chapter 3. REQUIREMENT GATHERING**

**3.1) Functional Requirements**

**1. Registration**

* To enter into the application, user have to register himself/herself first.
* Requirement of Registration are Name, Email, Password, Confirm Password and Phone Number.

**2. User Login**

* After Registration a user needs to Login to use the application.
* To Login, User needs to enter the registered Email and Password.

**3. Book an Appointment**

* At the Book Appintment Page, a user can book an appointment according to his/her requirements by entering his/her Name, Reason and Mobile Number.

**4. Pay for an Appointment**

* A user needs to pay 150 rupees in advance for an appointment and other money will be done pain after the treatment is done successfully.

**5. View an Appointment**

* A User can also view the booked appointment in this application. So that, he/she can confirm that the apppointment is successfully booked.

**6. Logout**

* The system provide the facility to logout from the application.
* Input : Select logout option
* Output : Logout from the system
* Processing : User will log out

**3.2) Non-Functional Requirements**

**1. Performace Requirements:**

* The system need to be reliable
* If unable to process the request an appropriate error message should be appeared
* The activities should be loaded within few seconds

**2. Safety Requirements:**

* The details need to be maintained properly
* User must be at 20 catered
* The database must be kept back up

**3.3) Data Requirements**

**1.Hardware Requirements:**

* **Device -** HP Pavilion is a line of consumer-oriented [laptop](https://en.wikipedia.org/wiki/Laptop) and [desktop computers](https://en.wikipedia.org/wiki/Desktop_computers) produced by [HP Inc.](https://en.wikipedia.org/wiki/HP_Inc.) It was introduced in 1995 by [Hewlett-Packard](https://en.wikipedia.org/wiki/Hewlett-Packard). The name is applied to both [desktops](https://en.wikipedia.org/wiki/Desktop_computer) and [laptops](https://en.wikipedia.org/wiki/Laptop) for the Home and Home Office product range. The Pavilion mainly competes against computers such as [Acer](https://en.wikipedia.org/wiki/Acer_Inc.)'s Aspire, Dell's [Inspiron](https://en.wikipedia.org/wiki/Inspiron) and [XPS](https://en.wikipedia.org/wiki/Dell_XPS), [Lenovo](https://en.wikipedia.org/wiki/Lenovo)'s [IdeaPad](https://en.wikipedia.org/wiki/IdeaPad), [Samsung](https://en.wikipedia.org/wiki/Samsung_Electronics)'s [Sens](https://en.wikipedia.org/wiki/Samsung_Sens) and Toshiba's Satellite.
* **Processor -** Ryzen 5 4600H is a [64-bit](https://en.wikichip.org/wiki/64-bit_architecture) [hexa-core](https://en.wikichip.org/wiki/hexa-core) mid-range performance [x86](https://en.wikichip.org/wiki/x86) mobile microprocessor introduced by [AMD](https://en.wikichip.org/wiki/AMD) in early [2020](https://en.wikichip.org/w/index.php?title=2020&action=edit&redlink=1). Fabricated on [TSMC's 7-nanometer process](https://en.wikichip.org/wiki/N7) and based on AMD's [Zen 2 microarchitecture](https://en.wikichip.org/wiki/amd/microarchitectures/zen_2), the 4600H operates at a base frequency of 3.0 GHz with a [TDP](https://en.wikichip.org/wiki/TDP) of 45 W and a [boost](https://en.wikichip.org/w/index.php?title=amd/precision_boost&action=edit&redlink=1) frequency of up to 4.0 GHz.
* **Ram –** 8 GB
* **Hard Disk Capacity –** 1 TB
* **SSD Capacity –** 128 GB
* **GPU -** The GeForce 16 series is a series of [graphics processing units](https://en.wikipedia.org/wiki/Graphics_processing_unit) developed by [Nvidia](https://en.wikipedia.org/wiki/Nvidia), based on the [Turing microarchitecture](https://en.wikipedia.org/wiki/Turing_(microarchitecture)), announced in February 2019.[[5]](https://en.wikipedia.org/wiki/GeForce_16_series#cite_note-6) The 16 series, commercialized within the same timeframe as the [20 series](https://en.wikipedia.org/wiki/GeForce_20_series), aims to cover the entry-level to mid-range market, not addressed by the latter. As a result, the media have mainly compared it to [AMD](https://en.wikipedia.org/wiki/Advanced_Micro_Devices)'s [Radeon RX 500 series](https://en.wikipedia.org/wiki/Radeon_500_series) of GPUs.

**2.Software Requirements:**

* **Android Studio -** Android Studio is the official[[7]](https://en.wikipedia.org/wiki/Android_Studio#cite_note-:0-7) [integrated development environment](https://en.wikipedia.org/wiki/Integrated_development_environment) (IDE) for [Google](https://en.wikipedia.org/wiki/Google)'s [Android](https://en.wikipedia.org/wiki/Android_(operating_system)) [operating system](https://en.wikipedia.org/wiki/Operating_system), built on [JetBrains](https://en.wikipedia.org/wiki/JetBrains)' [IntelliJ IDEA](https://en.wikipedia.org/wiki/IntelliJ_IDEA) software and designed specifically for [Android development](https://en.wikipedia.org/wiki/Android_software_development).[[8]](https://en.wikipedia.org/wiki/Android_Studio#cite_note-8) It is available for download on [Windows](https://en.wikipedia.org/wiki/Windows), [macOS](https://en.wikipedia.org/wiki/MacOS) and [Linux](https://en.wikipedia.org/wiki/Linux) based operating systems.[[9]](https://en.wikipedia.org/wiki/Android_Studio#cite_note-9) It is a replacement for the [Eclipse Android Development Tools](https://en.wikipedia.org/wiki/Eclipse_(software)#Android_Development_Tools) (E-ADT) as the primary IDE for native Android application development.
* **Google Firebase -** Firebase is a set of [backend](https://en.wikipedia.org/wiki/Mobile_backend_as_a_service) [cloud computing](https://en.wikipedia.org/wiki/Cloud_computing) services and application development platforms provided by [Google](https://en.wikipedia.org/wiki/Google). It hosts databases, services, authentication, and integration for a variety of applications, including [Android](https://en.wikipedia.org/wiki/Android_(operating_system)), [iOS](https://en.wikipedia.org/wiki/IOS), [JavaScript](https://en.wikipedia.org/wiki/JavaScript), [Node.js](https://en.wikipedia.org/wiki/Node.js), [Java](https://en.wikipedia.org/wiki/Java), [Unity](https://en.wikipedia.org/wiki/Unity_(game_engine)), [PHP](https://en.wikipedia.org/wiki/PHP), and [C++](https://en.wikipedia.org/wiki/C%2B%2B).