# Islamic University of Technology

**Computer Science and Engineering (SWE)**


**Design Project 1 (SWE 4506)**

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# MedAid

## Team members :


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## Project overview :

MedAid is a web platform where users can get recommendations based on their symptoms and connect with doctors, book appointments, see waiting time on a dynamic queue, get recommendations and get help on getting medicines and get knowledge on diagnostic tests availability and their prices across different centers.

## Motivation behind the project :

1. The current system of booking an appointment and seeing a doctor is very tedious, time consuming and overall uneasy for most people of our country.
2. Even after booking an appointment, you have to wait for a long time before you can actually see the doctor.
3. Then the process of buying medicines, checking their availability, having knowledge of diagnostic tests, their prices and availability throughout different centers is also a laborious job.

## Uniqueness :

No other app or website has yet to fully realize the entire process of searching by symptoms to booking appointments and getting tests done.

## Better over alternatives :

There are a few alternatives but they only offer to book appointments with their own doctors. We instead want to connect patients to doctors and not monopolize the healthcare industry.

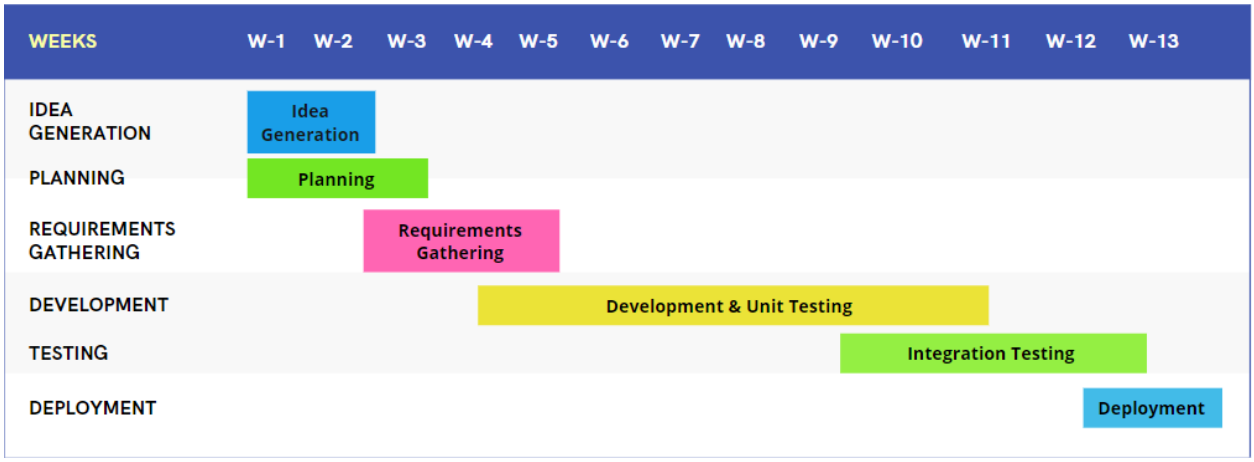
## Key features :

- **Symptom Based Search :**
  User can search with his/her symptoms, and will get recommendations on which specialty of doctor he should visit(e.g: Cardiologist, Urologist)
- **Categorized Search :**
  Users can search doctors based on their specialty, location, availability.
- **Appointment Booking :**
  Users can book appointments with doctors online
- **Dynamic Patient Queue :**
  There will be a patient queue, it will show how many patients are waiting to see the doctor and give an estimation of how much time to wait before someone can see the doctor
- **Test :**
  Users can see the availability of a diagnostic test and its price in different diagnostic centers
- **Medicine :**
  Users can see the availability of a medicine and its price in different medicine shops
- **User Feedback :**
  Users can give feedback on doctors, diagnostic centers and on medicine shops. Based on this feedback

## Technologies :

- React for Frontend
- ExpressJS and NodeJS for Backend
- MongoDB for Database
- Github for version control
- Jest for testing

## Timeline :




## Challenges :

- Finding such large and correct databases.
- Integrating all the databases.
- Having the appointment queue running concurrently on both doctor and patient's portal.
- Showing test centers, medicine shops and doctor chambers on map.