North East University Bangladesh

Department of Computer Science and Engineering

Summer 2022

Course Code: CSE 300 Course Title: Project Work 2

**1) Basic Information:**

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| **Group Details** | **Student ID** | **Student Name** |
| 190303020001 | Md. Abdul Mutalib |
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| **Project Title** | Doctor Appointment System | |

**2) User Roles:**

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| **User Types** | **Description** |
| Unregister User | We refer to people who are not logged in as unregistered users. They can view the profiles of the doctors and other sections. But they cannot book appointment. |
| Patient | They can create their profile and also visit the profiles of the doctors and other sections. They can book appointment also. |
| Doctor | Doctor can create their profile. They can update their bio data. |
| Admin | The administrator will accept any attempts by non-registered users to create profiles or log in to the website. The administrator will control all of our website's activities and features. |

**3) User Story Planning:**

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| **Task Number** | **User Stories** | **Responsible** | **Deadlines** |
| S-1 | Unregistered users are able to access the main page and the doctor's profile. The user can visit the FAQ area and view top-rated doctors. Unregister user can take consultant service from the admin. |  |  |
| S-2 | Unregistered user can register in our website. After successfully registration, the registered user can login. |  |  |
| S-3 | Registered user can update the profile. That user can book an appointment of a doctor. The registered user can consult with the doctor and added to that, admin.  The patient and doctor can create their profile. After successfully registration, they will be able to login in the website. And they can update their profile information. |  |  |
| S-4 | Any non-registered users and doctors may be approved by the admin. The website's administrator has full access and can change any user information. Admin can delete any user or doctor’s profile. |  |  |
| S-6 | In patient profile section patient can give some health data (BP, heartbeat, diabetic’s level). After analyzing these data the patient will notified about his health condition.\* |  |  |
| S-5 | There will be several categories of the doctor. The patient can view department wise doctor list. |  |  |
| K-1 | By using the doctor service, the patient can give rating to the doctor. It will help to the patient for searching top rated doctor. |  |  |
| K-2 | While fileting the doctor’s, the patient can find nearby doctors by comparing the patient location. |  |  |
| K-3 | In the doctor’s profile, there will be show a number that has been booked by the patient including patient list and by clicking patient ID doctor can visit that patient profile. |  |  |
| K-4 | There will be a landing page where patient can see top rated doctor’s time schedule. |  |  |
| M-1 | The patient will get a notification after booking the appointment. The notification can be sent through the mail. |  |  |
| K-5 | The patient can communicate with a doctor or a service agent as a consultant service. |  |  |
| M-2 | There will be a section/button for emergency case. Here the patient can take appointment immediately from the available emergency doctor. |  |  |
| M-3 | The patient can provide review according to the doctor service. |  |  |
| M-4 | When users not well known to the system of our site. These, user can easily take appointment by submitting an appointment form. |  |  |
| M-5 | In the FAQ section, the user can get his desired question answered. |  |  |
| K-6 | After taking the appointment, the patient will pay the appointment cost as a e-banking. |  |  |
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**4) The Product Backlog:**

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| **Story Number** | **User Story** | **Acceptance Tests** |
| M-1 | Unregistered users are able to access the main page and the doctor's profile. The user can visit the FAQ area and view top-rated doctors. Unregister user can take consultant service from the admin. |  |
| M-2 | Unregistered user can register in our website. After successfully registration, the registered user can login. | 1. Leave an input field blank (fail).  2. Using banned email or existing  email.(fail)  3. Using an already used  Username (fail).  4. SQL injection (fail).  5. Photograph size is huge (fail).  6. Correct username, password  during login(pass)  7. Incorrect username only, incorrect  password only, incorrect both at  login (fail) |
| M-3 | Registered user can update the profile. That user can book an appointment of a doctor. The registered user can consult with the doctor and added to that, admin.  The patient and doctor can create their profile. After successfully registration, they will be able to login in the website. And they can update their profile information. |  |
| M-4 | Any non-registered users and doctors may be approved by the admin. The website's administrator has full access and can change any user information. Admin can delete any user or doctor’s profile. |  |
| M-5 | In patient profile section patient can give some health data (BP, heartbeat, diabetic’s level). After analyzing these data the patient will notified about his health condition.\* |  |
| S-1 | There will be several categories of the doctor. The patient can view department wise doctor list. | Both registered and unregistered users can see the various categories of doctors. |
| S-2 | By using the doctor service, the patient can give rating to the doctor. It will help to the patient for searching top rated doctor. | To rate, a user must first register or login to our website. A registered user can actually give the rating. |
| S-3 | While fileting the doctor’s, the patient can find nearby doctors by comparing the patient location. | A nearby button is available on our website. When a patient clicks the button, nearby doctors are displayed. It will work if the patient's location is correctly submitted; otherwise, it will not (fail to check nearby doctor). |
| S-4 | In the doctor’s profile, there will be show a number that has been booked by the patient including patient list and by clicking patient ID doctor can visit that patient profile. | Since this process will be performed dynamically, any technical issues may arise. Because of this problem, the scheduled appointment list cannot be displayed properly.  For this case doctor should talk with the admin using our consultant service or Gmail system. |
| S-5 | There will be a landing page where patient can see top rated doctor’s time schedule. | Fail if any technical issue may arise.  The developers will solve this this issue. |
| S-6 | The patient will get a notification after booking the appointment. The notification can be sent through the mail. | If the patient does not receive his or her mail. That means the mail is either unable to reach the patient's mail box or has already been dropped.  The patient should resubmit the appointment form to get the appointment notification. |
| K-1 | The patient can communicate with a doctor or a service agent as a consultant service. |  |
| M-2 | There will be a section/button for emergency case. Here the patient can take appointment immediately from the available emergency doctor. |  |
| M-3 | The patient can provide review according to the doctor service. |  |
| M-4 | When users not well known to the system of our site. These, user can easily take appointment by submitting an appointment form. |  |
| M-5 | In the FAQ section, the user can get his desired question answered. |  |
| K-6 | After taking the appointment, the patient will pay the appointment cost as a e-banking. |  |
| S-1 | Unregistered users are able to access the main page and the doctor's profile. The user can visit the FAQ area and view top-rated doctors. Unregister user can take consultant service from the admin. | ? |
| S-2 | Unregistered user can register in our website. After successfully registration, the registered user can login. | ? |
| S-3 | Registered user can update the profile. That user can book an appointment of a doctor. The registered user can consult with the doctor and added to that, admin.  The patient and doctor can create their profile. After successfully registration, they will be able to login in the website. And they can update their profile information. | ? |
| S-4 | Any non-registered users and doctors may be approved by the admin. The website’s administrator has full access and can change any user information. Admin can delete any user or doctor’s profile. | ? |
| S-6 | In patient profile section patient can give some health data (BP, heartbeat, diabetic’s level). After analyzing these data the patient will notified about his health condition.\* | ? |
| S-5 |  |  |
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By giving his blood pressure (BP), diabetes, heart beat data daily to our website for the prediction of the