|  |  |
| --- | --- |
| page1image3828864 | **B. P. Poddar Institute of Management and Technology**  **Department of Computer Science & Engineering**  **Software Engineering Lab (ESC-591)**  **AY: 2021-22 ODD Semester**  **Assignment-1 (Requirement Questionnaire)** |

Group No. (Case Study No.) \_\_\_\_\_\_\_\_4\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Case Study Title: \_ MediLab and Drug Store Information System

**Student Details:**

|  |  |
| --- | --- |
| **University Roll. No.** | **Name** |
| **11500119052** | **SNEHA TIWARI** |
| **11500119051** | **TANDRIMA GHOSH** |
| **11500119047** | **SOUMYAJIT PRAMANIK** |
| **11500119048** | **TUHIN HAZRA** |

**Please do not write anything below the dotted line >**

...................................................................................................................................................................................................

**Marks awarded (Total Marks = 20)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student Name |  |  |  |  |
| Marks Awarded |  |  |  |  |

Signature of Faculty with date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Requirement Engineering Questionnaire**

Each student takes turns to pose as a client or user. There may be several users of a system (case study). Please write the user name in bracket that you are role playing.

*e.g. Ananya Kanjilal (Library Member)*

Table – 1: Name of Student \_Sneha Tiwari\_| (Posing as Admin)

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Question asked** | **Answer/Response received** |
| 1. | As an admin, how do you display clinic information using MLDIS? | The software provides fields to enter the general information of the MediLab and Drug Store. This includes address, contacts, lab tests details, pricing and other necessary data any first time user needs. |
| 2. | Is the software compatible with the requirements of user? Does it fulfil the need to add newer tests? | Yes. We can effortlessly add newer tests in the list of tests our MediLab offers. For instance, we added Covid test (RT-PCR test) in the list as many users required urgent testing. It can also efficiently manage the availability of existing tests. |
| 3. | How does the software contribute in the maintenance and continuity of lab tests? | The software makes it easier to update any information related to tests and checkups in real time. It’s easier to list the lab test details & its availability. |
| 4. | If there’s any technical fault with equipments or slot inadequacy, how will you inform the patients? | In case, we face any issues regarding the equipments, or the clinic is under-staffed, or there’s shortage of medicines, in such circumstances we either need to abort appointments and orders or postpone it. The software will generate notifications informing the staffs, along with doctors about the shortage. It automatically tracks the list of patients with slots or orders that needs to be cancelled, sends email notifications with an apology for inconvenience. This gives Admin enough time to take further action. |
| 5. | How do you define the cost/pricing of the tests? | The in-built feature of this system automatically updates the pricing of laboratory tests annually. We revise the rates of tests by 25% every year. The application updates the new costs and displays the required info for the same. |
| 6. | How do you manage patient and staff data using the software? | Admin can easily create different databases for the staffs, doctors and users, and provide separate access modes to all. The data included are: patient id, drug and test history, contacts & address, order and bill details. There’s an easy login system for the staff. |
| 7. | Can you update the info regarding doctor’s availability? | Every single details regarding the doctors at clinic can be updated in the application. This includes the timings for visit, names and details of the physician, availability for consultation, etc. If any changes are required, we can instantly add or update it without any hassle. |
| 8. | Can the system mention the types of physicians at our clinic? | Medical specialists are at our facility have Pediatrics, OB/GYNs, Cardiologists, Radiologists, Pulomonologists, Orthopedics, Ophthalmologists, Allergists, Dermatologists, ENT specialists and General practitioners. We can easily list them on our system. |
| 9. | How do you take care of the billing? | The application provides easy interface to create invoicing and send to patients whenever they choose our MediLab to get their tests done or to buy prescribed medicines. The software also aids clearing pending bills and keeping record of the same. |

Table – 2: Name of Student (posing as Patient)\_Tuhin Hazra\_

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Question asked** | **Answer/Response received** |
| 1. | What all test facilities can a patient find using the software? | Over a 100 diagnostic tests are available. The category includes Laboratory, Radiology & Pathology. List of tests includes common tests like- routine blood sugar test, Covid test, urine & stool test, BP checkup, X-rays, CT scan, MRI, sonograms, etc. to Biopsy, Colonoscopy, PET, ECG, bone marrow tests. |
| 2. | As a patient can we download reports after tests? | Yes a patient can download both old or new reports easily. |
| 3. | How to book an appointment? | By searching, a patient can make appointment and can also cancel it if required. |
| 4. | How will a patient look for medicines? | By directly searching the medicine name. |
| 5. | What about the security for patient’s personal data? | The system provides a good security to ensure patient’s crucial information is not misused. |
| 6. | What payment methods are available while buying medicine? | A patient can do both COD payment as well as online UPI payment. |

Table – 3: Name of Student (posing as Physician) \_\_\_Soumyajit Pramanik

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Question asked** | **Answer/Response received** |
| 1. | How can I access the patient history? | The patient history will be uploaded in the software after every appointment. Using the patient name or ID, physician can search the history. |
| 2. | Can I check the availability of equipments required for the tests? | The software can keep record of the equipments for lab and also notify when there is a shortage. |
| 3. | Can I instruct the patient about certain conditions before the test? | In case, a special attention is needed, physician can personally inform the patient or use the software to do so. |
| 4. | How will I generate the patient’s reports? | The physician can use the software to upload the lab reports, manage and update patient history. |

Table – 4: Name of Student (posing as Staff Member) \_\_Tandrima Ghosh

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Question asked** | **Answer/Response received** |
| 1. | How to check if the system is operating effectively or not? | Check whether there is any issue with the server or any portal is not taking inputs or giving error ,etc. |
| 2. | How to open lab equipment portal? | By login with specific staff id. |
| 3. | How to check drug availability? | By searching the drugs name you can check the availability of drugs or you can search how many drugs are not in a stock. |
| 4. | Can I check if there is any shortage of lab equipments? | Yes. Status of both lab tools and medicines can be easily checked by the software. |
| 5. | How can I send the report of equipments data to Admin or other staff members? | There will be a portal for checking as well as sending daily reports of equipment data by making a copy. You can also make changes manually if needed. |

**List of Features/Functions summarized:**

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Function/Feature of the system** | **User(s) who uses this feature** |
| 1. | Registration | Physician, Patient/User |
| 2. | Login | Physician, Patient/User, other staff members |
| 3. | Manage the patient history | Admin, Physician, other staff members |
| 4. | Track status of the lab equipments | Admin, other staff members |
| 5. | Generate test report | Physician |
| 6. | Check availability of drugs | Admin, other staff members |
| 7. | Search for Medicine and Test availability | Patient/User |
| 8. | Request Medication | Patient/User |
| 9. | Make an appointment | Patient/User |
| 10. | Cancel an appointment or order | Patient/User |
| 11. | Contact & Support | Patient/User, Physician |
| 12. | Payment & transaction details | Patient, Admin |

**Assumptions (if any):**

1. For getting a test done, a user can only book or cancel an appointment. He cannot pay the bill for tests via system. He/she can only do so while being present at the clinic.
2. Payment is only enabled for patients buying medicine or drug online.
3. The system automatically updates information regarding the stock of lab equipments or drug availability. It will generate warning or signal in case of any inadequancy.