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**Department of Computer Science and Engineering(CSE)**

**Faculty of Sciences and Engineering**

**Semester: (Summer, Year:2021), B.Sc. in CSE (Day)**

**Project Proposal**

**Course Title: Information System and Design Lab**

**Course Code: CSE 438 Section:191 D-7**

**SUBMITTED BY**

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**SUBMITTED TO**

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| **Course Teacher’s Name** | **Designation** |
| **MD. RIAD HASSAN** | **Lecturer** |

**Submission Date : 08-11-2022**

**1.Project Title Name:** Patient Support and Service Using Java on Web Base.

**2.Objectives:**

The major objective that we are going to focus on are:

* Record all documents of a patient's report.
* A doctor can easily find out patient's problem by seen patient's previous prescriptions.
* In future we transform our java-based project to web based application so it can be accessible from anywhere in the world. We also try to convert

**3.Abstract**

**Problem Domain:** In the case of medical support, we face various problems at different times, such as-

* When we get a prescription from a doctor and we take the medicine, but for better treatment sometimes we need to check our-self to different doctor.
* In that time if we loose our previous prescription then, it will makes difficulty to another doctor to give us proper treatment.

**Motivations:**

* If we can store the health condition of a patients in a particular database, then it will be helpful for a doctor to treatment his patients in proper way.
* At the same time the patients can know their health condition as well by seen the database.
* A doctor can compare the patients helth conditions by seen of previous repair and present report. After comparing those reports Doctor can easily gives a good treatment for a patient.
* We have proposed a new software system that manage both patient information and the doctors so that both users easily get the desire information they need.
* Patient also can generate the lost prescription for future use.

**4.Introduction**

Patient support System is an application which refers to management systems targeted for small clinic which is generally small or medium in size able to store patient health related information like doctor info, diseases, blood group, prescription, contact info & patient biological info digitally when the patient lost or forgot to bring the health report in the clinic.

Now days maximum Clinic/Diagnostic Center/ hospital in Bangladesh don’t have computerized patient support system because of that patient are suffering many kinds of problem such as losing their prescription which derives many problems when the doctor want sees their prescription which they don’t have.Our proposed project, patient support system can eliminate such problem which patient are facing.

**Feasibility Study**

A bunch of feasibility study should be taken to compare the new system going to be build and the existing system. We have to study economic feasibility, technical feasibility, operational feasibility etc.

**Technical Feasibility**

• Calculate System accuracy,

• Calculate Response time & Analyze User Friendliness.

**Operational Feasibility**

• Calculate Operation time

• Analyze Reliability, Accuracy & Retrieval Rate

**Economical Feasibility**

• Check System performance, Check System operation

• Emphasize User training, Calculate Budget & Check Human resources

**Literature Review:**

Counselling and support services.

Health promotion activities online.

Medical and nursing services online.

Dental health services via online.

Allied health, including audiology, dietetics, exercise physiology,

physiotherapy, podiatry, occupational therapy and speech

therapy serial booking/maintaining by online.

Other services and supports may include:

Aged care services

Alcohol and drug programs

Carer respite

Maternal and child health services

Mental health programs

Disability services

Outreach services

Problem gambling programs

Rehabilitation programs

Support for self-help

**5.Methodology:**

Login data not matched

Show Error

Login

Patient ui

Doctor ui

Admin ui

Control/show data

show data of patient

logout

User logged in

show data/Generate Hard Copy

Print

Print hard copy of prescription

Print

User logged out

Error Detected

Figure 1: Block Diagram of Patient Support System

**6.Discussion & Conclusion:**

This is the first time we have had the opportunity to work together in a group. Great experience, at first we could not find any topic by discussion, later we managed to come up with this topic "Patient Support Services "by doing a lot of research. If we can be successful in this project, we will be able to provide more services to patients in the distant future and all the documents of the patient including the time of seeing the patient in time will be in the record and maintaining patient transport bookings, maintaining online serial for visiting the Doctor, providing general clerical support for the clinical team as requested inshallah.

**References:**

* [http://apps.who.int/iris/bitstream/handle/10665/272465/9789241513906-eng.pdf](http://apps.who.int/iris/bitstream/handle/10665/272465/9789241513906-eng.pdf?fbclid=IwAR2Ngtmnsh2tNpcGH9vPjMqA4igEbRfRTIA34TWvUyh6ItMkWN2jMDeEmO8)
* [https://pcmh.ahrq.gov/page/creating-patient-centered-team-based-primary-care](https://pcmh.ahrq.gov/page/creating-patient-centered-team-based-primary-care?fbclid=IwAR3ZDLl2BbniYjuK3QyyOCIjiItoNYpZQlwG6OcLF7L3ruu1DnUvVrUlDwQ)
* [https://pcmh.ahrq.gov/page/coordinating-care-adults-complex-care-needs-patient-centered-medical-home-challenges-and](https://pcmh.ahrq.gov/page/coordinating-care-adults-complex-care-needs-patient-centered-medical-home-challenges-and?fbclid=IwAR2-d_q50hh_cRrnM1AF4-xMgKQbcJK7R2b2FDzIFWMLWQfoSl_5etSN8V4)
* [https://www.nap.edu/read/25028/chapter/6](https://www.nap.edu/read/25028/chapter/6?fbclid=IwAR0Gpuf32g5p_ftNMU9sHprRy7tow7qk2iqywgHBkxyHYB-K4aYRQyOjoxM)
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* [https://www.betterhealth.vic.gov.au/health/healthyliving/community-health-centres](https://www.betterhealth.vic.gov.au/health/healthyliving/community-health-centres?fbclid=IwAR3buJZ1MIMzwqW-hhwxOvTylSTLHb7OhjD6ynUmjCsZ8u7ZbngTy3swSN4)