# Section 1: Metadata

## *to be filled by the student*

* 1. **Project Information** to be filled by the student

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| Title: Database for surgical patient records | |
| Start: 7th January | End: 2nd February |

* 1. **Student(s) Information**

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| Name: Alina Qureshi | ID: aq03798 |
| Cell: 0333-2220403 | Batch: 2021 |
| Name: Laiba Fatima Khan | ID: lk04067 |
| Cell: 0301-5266915 | Batch: 2021 |

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| Name: Ali Mohammed Shujjat | ID: as03856 |
| Cell: 0323-3336445 | Batch: 2021 |

* 1. **Client Information**

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| --- | --- |
| Organization Name: LUMHS (Pediatric Surgery Department) | Contact: |
| Address:Liaquat University of Medical and Health Sciences (LUMHS). Deh Soun Valhar, Jamshoro, Sindh | |
| Supervisor: Dr. Imtiaz Qureshi | Cell:03313536220 |
| Email: driq00@gmail.com | |

**Section 2: The Project**

## *to be filled by the external supervisor*

* 1. **Project Description:** *Please provide a brief introduction of the project including its scope.*

The project involves the creation of a database management system for the client to keep track of patient records, appointments, and allow for searching through the data of surgeries (patient history, diagnosis etc.). This is to aid the client in keeping track of patient histories, as well as guide in streamlining operations. The team is expected to create a user-friendly system with good GUI and ensure that this record-keeping process is as systematized and effective as possible.

* 1. **Expected Deliverables:** *Please list the expected outcomes at the end of this project, e.g. a working prototype of the solution, a report, or the expected contribution to be made by the participant(s).*

The team is provided with a list of requirements that the database should contain. They include but are not restricted to:

1. *Patient Basic Information (Name, Sex, DOB, Previous History)*
2. *Brief History*
3. *Diagnosis*
4. *Operative Procedures*
5. *Complications*
6. *F/UP Visit*

Since the group consists of 3 people, they’ll be dividing ourselves into two groups. One person will be responsible for the design and front-end of the application, while using C# on Visual Studio. While the other two will be responsible for the back-end, ERD, queries and general database handling using SQL server. After both of the parts are done, and approved by the client, we will integrate and merge both ends.

* 1. **Planned Schedule:** *Kindly list the start/end dates and the timeline for the achievement of any intermediate milestones.*

Deliver by the start of February 2021. The entire project is divided into various modules that will be considered as our milestones. They are:

* General Prototype - **9th January** 
  + This includes:
    - ERD on DB Designer
    - A basic working structure of the database
    - Working front-end with placeholder buttons and screens.
* Adding in new patient’s information **- 11th January**
  + This includes:
    - Fully designed screen to input patient data such as Name, Age, Diagnosis.
    - Querying to search, add, remove and update records in the back-end.
* Adding image upload functionality as well as ways to input the rest of the data defined by the client. **-14th January**
  + This includes:
    - Respective screens and popup menus to add data
    - Querying to search, add, remove and update records in the database.
* Populating database with client’s data. **- 16th January**
* Searching and Sorting System **- 18th January**
* Implement security measures. **- 20th January**

* Properly designed the layout as well as aesthetics of the system. **- 25th January**
  + This includes:
    - General color theme that must be approved by client
    - Adding logo and other images for aesthetic purposes
    - Test running to ensure that the system is simple enough to be understood by the client.
* Reviewing/Debugging. **- 28th January**
* Software Deployment. **- 31st January**
  1. **Modus Operandi:** *Kindly explain the mode of operation i.e., how often and for how long should the student should visit your site, can they work remotely, how you will supervise them*

The team will be meeting the client on a weekly to bi-weekly basis [depending on the progress], to show them the progress and ask for further feedback. These meetings will be held on Zoom, as the client is situated in Hyderabad whereas the team is in Karachi. At the end of the project creation, one of our team members will travel to Hyderabad, to integrate the system to the client’s system.

* 1. **Comments:** *Kindly mention any special requirements you expect and/or any comments you might have.*

Special Requirements requested by the client:

Password protected database.

Should allow Image upload,

Application should look good visually, and intuitive user interface.

Simple interface and have the ability to categorize data for easy search





Name and signature of student Location and date



Name and signature of external supervisor Location and date



Name and signature of internal supervisor Location and date