|  |  |  |
| --- | --- | --- |
|  | **KATOWICE INSTITUTE OF TECHNOLOGIES**  **INFORMATION TECHOLOGY** |  |

**IT SYSTEM DESIGN**

**PREVIEW DESIGN REPORT**

**SUBJECT**

The Web Application for Patients and Lab Technicians

To Manage and Access Pathological Reports

**PREPARER**

09466

Kerim Senturk

**CONSULTANT**

Mr. Jacek Żywczok

1. PROJECT SCOPE
   1. What is The Project?

This project contains an web information management system to store, manage and present pathological and diagnostics results of patients. We have 3 types of user;

*Patient*: Who is want to see pathological and diagnostic results of him

*Lab* Techinician: Who is entering the pathological results to system.

*Doctor*: Who is review the pathological results and creating diagnostic reports.

* 1. **What is The Purpose of Project?**
* Managing pathological and diagnostic reports of patients.
* To get easier and be faster the accessing the patient results.
* Taking to digital place the patient results.
  1. **What are The Components of Project?**
* Database
* Web API
* Web Interface
* A schema of showing the relation between components
  1. **What are The Functionalities of Project?**
* Create Patient/Lab Technician/Doctor User
* Update Patient/Lab Technician/Doctor Informations
* User Identification by Login/Logout
* User Authorization
* Create, Update, Delete, View Patient Results
* Download Patient Results as .pdf file
* Logging user actions to MongoDB like create, delete, show, login, logout etc. (Optional)
* View user actions by log data.
* Contact with Doctor on system. (Optional)

\*\*\* Some of these functionalities can be perform only by who has authority. For more information check the “USER AUTHORIZATION”.

1. **COMPONENTS**
   1. Database
      1. Entities
         1. Report
         2. User
         3. Report File
      2. Logs
      3. Developing Tools
         1. MySQL
         2. MongoDB
   2. Web API
      1. User Service
      2. Report Service
      3. Report File Manager
      4. Logger
      5. Authentication
      6. Developing Tools
   3. **Web Interface**
      1. Pages
      2. Developing Tools
2. **USER AUTHORIZATION**
3. **INTERFACE SKETCHS**