

**Project Information**

Prison Management System

**Document Version 1.0**

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**Problem Statement**

Government has to maintain a prison and this should be in proper way so that no corruptions happens. They have to keep criminal records,look for the in-charges etc. Moreover this management should be modified . The Jailers have to keep visitor records in paper and also other works done by the interior Minister is also in papers. As a result, the prison record keeping system suffers all the issues related to paper based system - loss/destruction/damage of documents, difficulty in searching for specific records, difficulty in generating any report, necessity of huge areas for storage and more. A digital web based system must be developed to remedy the current issues of this paper based record keeping system. This will make the maintainance easy and the records can be kept safe.

From this point onward, the system will be called the Prison Management System or **PMS** in short.

**Background Information**

There are mainly 5 sectors in PMS which are Prisoners,Jailer,Lawyer,Interior Minister and visitors.As per government requirements, all units of the government must keep complete personal, Criminal and professional records of all the Prisoners. The records include, but are not limited to - personal information, crime history, prisoner’s data, Lawyers history,Interior Minister’s overall controls,visitors visiting records and more. Being an active part of the government machinery, also has to keep such records. But the record keeping system is completely paper based at the moment. Anyone who wishes to find specific records, they have to sort through physical folders and files, which is time consuming and often frustrating. Creating new records on paper manually are also prone to human errors which are difficult to correct.

Often management need to have a report for specific prisoners based on certain criteria. Creating such report is a very difficult task for anyone, not to mention the time it requires.

So a web based application/system will be an efficient way to solve these issues. The PMS system will allow handling records digitally removing much of the issues of the paper based system.

**Justifications**

* current paper based project is error prone and time consuming.
* Bangladesh government is moving full force to digitize all its system. To be compliant with government policies, this web based system is necessary to build for record keeping of Prisons
* The PMS system will increase safety make the prison organized.

**Goal**

1. Create a responsive web application where Warden(in charge of PMS) can have a single interface to search for Prisoners,Lawyers,Jailer,Visitors and can operate everything.Likewise, Lawyers and Jailers can access to prisoners records where the visitors records will be accessible for Jailers.This will make the prison organized and the government can take proper care

2. Provide an easy interface for visitors who can search online and make application for visiting their relative prisoners

3. Other visitors can also check the web portal if interested.

4. PMS portal will be as organized as established countries.

**Objectives**

1. Build an easy to use web application for managing prisoners records.
2. Build a web portal usable from devices of all sizes
3. Build a web portal that will make this organized by allowing easy searches, record entry and updates.
4. Build a web portal to reduce errors in data entry
5. Build a web portal to keep records for a long period of time as specified by policies.
6. Build a web portal to provide confidentiality to employee records.

Constraints

The system will have to do web scraping for data collection from the prison,data of prisoners,jailers,lawyers. The System has to be a responsive web application to be usable from both desktop and mobile devices.

**Scope**

**\*\*\***if any scope changes are required by the client at a later date, then the scope, the time and budget may also change.

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| --- | --- |
| **In Scope** | **Out of Scope** |
| Design and development of web portal for employee data management system | Hosting server provision/management |
| Testing of system | Database server provision/management |
| Secure and manageable code | Security for application hosting and/or database server |
| Deployment | Network security |
| Inline Help file generation | Data entry |

**Deliverables**

The complete web application along with all its database schemas

Help files

**Risks**

No risks at all.

**Plan of work**

A structured project management approach is being followed.

***Note:*** The time allotted here is subject to change based on client availability to give details to project team

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| --- | --- | --- | --- | --- |
| **#** | **Phases** | **Details** | **Duration** | **Cost** |
| **1** | **Initial works** | Define the project in detail based on targeted business case. Stakeholders need to be identified, information should be collected to understand feasibility and business values. | 1 weeks | 10,000 |
| **2** | **Planning phase** | Clearly define specific and attainable goals. We will set a timeline, decide on project milestones and determine project deliverables in this phase. Works will be done in collaboration of all team members. Project will be broken down into smaller parts in this phase for better handling. | 1 weeks | 20,000 |
| **3** | **Execution phase** | Project development team will be created and works will be handed down to appropriate resources. Project progress will be monitored based on the schedule created in the previous phase. Design, development and testing of the product will be done by the development team. | 7 weeks | 1,00,000 |
| **4** | **Closing things up** | Look back at things and determine success level of the project. | 1 week | 5,000 |
| **Total Time** | | | **10 weeks** |  |

**Product development work breakdown (7 weeks)**

Traditional waterfall method is used for this breakdown

***Note:*** The time allotted here is subject to change based on client availability to give details/guidance to the implementation team

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| **#** | **Phases** | **Details** | **Duration** |
| 1 | Understand requirements | Requirements will be collected and documented in use case format. | 1/2 weeks |
| 2 | Architecture and design | Architecture of the product will be determined. Detailed design will be created to start the actual development. Technology platform will be decided. Design for data storage (database design) will be created. We will also create an initial test plan and test cases in this phase. | 1/2 weeks |
| 3 | Coding/Implementation phase | Implementation of the use cases will be done based on established practices and standards. Unit testing may be enforced for cleaner code. | 5 weeks |
| 4 | Testing | Testing will be done based on test plan and test cases. User acceptance testing will be done in closed groups. Bug fixes and regression testing will be done here. | 1/2 weeks |
| 5 | Deployment | Deploy the system and make it live for general users. | 1/2 week |
| **Total Time** | | | **7 weeks** |

**Signatories**