**ACCIDENT RECORD MANAGEMENT SYSTEM**

**ABSTRACT**

The Accident management system will help us to maintain the record of accident before had to be happened. Every accident will be captured by this software it could be entered by the traffic police. Every traffic police has an individual login by using username and password. After the login session then only traffic police will be using this application, they can also check whether they had an previous complaint or not. For example the people who are not wearing seat belt, people who are not having an licence with driving, the people who are not drive a car/bike over speed anything case will be taken by the traffic police. If accident people having lot of issues before their licence will be locked. The traffic police can easily find the unknown people who are doing mistake regularly. Which is very helps to the traffic police to control the unwanted issues.

**1. INTRODUCTION**

The goal of this project has to be find the people who are doing an accident regularly, by tracking the people by using an aadhar number, it will give all the details about the criminal. The project is aimed to develop by JAVA as Front end and MYSQL as Back end.

**1.1 SYSTEM SPECIFICATION**

**1.1.1 HARDWARE SPECFICATION:**

* Processor : P 4 700 GHz.
* RAM : 4 GB RAM
* Hard Disk Drive : 180 GB

**1.1.2 SOFTWARE SPECIFICATION**

* Operating System : Windows 7/8/10
* Front End : JAVA
* Back End : MYSQL

1. **SYSTEM STUDY**

**2.1 EXISTING SYSTEM:**

This system only worked in internally they can’t able to track the criminals history. The traffic police just collect the fine and resolved. It can’t manage the previous accident record details. This will helps when the person met an accident many time but it is not possible in this system so we are having the following issue.

**2.1.1 DRAWBACKS:**

The existing system has the following drawbacks.

* Can’t track the criminal
* History not maintains
* very risky to find

**2.2 PROPOSED SYSTEM:**

This system will help to track the criminal immediately by using aadhar number. Every people has an aadhar number so the police man collect the number search it, it will give the previous history of the criminal. No one can escape from this operation this will be avoid some issue before happening.

**2.2.1 FEATURES:**

* Track the criminals
* Avoid accident issue
* Find people details by aadhar number

1. **SYSTEM DESIGN AND DEVELOPMENT**

**3.1 FILE DESIGN**

The selection of the file system design approach is done according to the needs of the developers what are the needed requirements and specifications for the new design. It allowed us to identify where our proposal fitted in with relation to current and past file system development. Our experience with file system development is limited so the research served to identify the different techniques that can be used. The variety of file systems encountered show what an active area of research file system development is. The file systems may be from one of the two fundamental categories. In one category, the file system is developed in user space and runs as a user process. Another file system may be developed in the kernel space and runs as a privileged process. Another one is the mixed approach in which we can take the advantages of both aforesaid approaches. Each development option has its own pros and cons. In this article, these design approaches are discussed.

**3.2 INPUT DESIGN**

The input design is the link between the information system and the user. It comprises the developing specification and procedures for data preparation and those steps are necessary to put transaction data in to a usable form for processing can be achieved by inspecting the computer to read data from a written or printed document or it can occur by having people keying the data directly into the system. The design of input focuses on controlling the amount of input required, controlling the errors, avoiding delay, avoiding extra steps and keeping the process simple. The input is designed in such a way so that it provides security and ease of use with retaining the privacy. Input Design considered the following things:’

* What data should be given as input?
* How the data should be arranged or coded?
* The dialog to guide the operating personnel in providing input.
* Methods for preparing input validations and steps to follow when error occur.

**OBJECTIVES**

* Input Design is the process of converting a user-oriented description of the input into a computer-based system. This design is important to avoid errors in the data input process and show the correct direction to the management for getting correct information from the computerized system.
* It is achieved by creating user-friendly screens for the data entry to handle large volume of data. The goal of designing input is to make data entry easier and to be free from errors. The data entry screen is designed in such a way that all the data manipulates can be performed. It also provides record viewing facilities.
* When the data is entered it will check for its validity. Data can be entered with the help of screens. Appropriate messages are provided as when needed so that the user
* will not be in maize of instant. Thus the objective of input design is to create an input layout that is easy to follow

**3.3 OUTPUT DESIGN**

A quality output is one, which meets the requirements of the end user and presents the information clearly. In any system results of processing are communicated to the users and to other system through outputs. In output design it is determined how the information is to be displaced for immediate need and also the hard copy output. It is the most important and direct source information to the user. Efficient and intelligent output design improves the system’s relationship to help user decision-making.

1. Designing computer output should proceed in an organized, well thought out manner; the right output must be developed while ensuring that each output element is designed so that people will find the system can use easily and effectively. When analysis design computer output, they should Identify the specific output that is needed to meet the requirements.

2. Select methods for presenting information.

3. Create document, report, or other formats that contain information produced by the system.

The output form of an information system should accomplish one or more of the following objectives.

* Convey information about past activities, current status or projections of the
* Future.
* Signal important events, opportunities, problems, or warnings.
* Trigger an action.
* Confirm an action.

**3.4 DATABASE DESIGN**

Today's businesses depend on their databases to provide information essential for day-to-day operations, especially in case of electronic commerce businesses who has a definite advantage with up-to-date database access. Good design forms the foundation of any database, and experienced hands are required in the automation process to design for optimum and stable performance.

Software Solutions have been constantly working on these platforms and have attained a level of expertise. We apply proven methodologies to design, develop, integrate and implement database systems to attain its optimum level of performance and maximize security to meet the client's business model.

### Business needs addressed:

* Determine the basic objects about which the information is stored
* Determine the relationships between these groups of information and the objects
* Effectively manage data and create intelligent information
* Remote database administration or on site administrative support
* Database creation, management, and maintenance
* Information retrieval efficiency, remove data redundancy and ensure data security

**3.5 SYSTEM DEVELOPMENT**

**3.5.1 DESCRIPTION OF MODULES**

1. Police Registration
2. Criminal Registration and View Module
3. Add new Case
4. Allocate Accident case
5. Search past accident history

**1.Police Registration**

This module is used to register the police who are have permission to open this software. After the registration will be completed then every police having unique username and password. Using this username and password they have to be login this software.

**2.Criminal Registration and View Module**

Criminal Registration module will be used to when the accident will be happened then police reach the spot and collect information from the criminal, then they added the details and then police view their details any time.

**3.Add new Case**

This module is when we need to create new type of case should register here. Then only a police can allocate the case to the criminal

**4.Allocate Accident case**

This Allocate module will be used to after the criminal registration has been completed then the police just enter the criminal aadhar number we collect all the information for the criminal. Then we just allocate the case to the criminal and just save it.

**5. Search past accident history**

This is an most important module of this project, this will help to find the criminal who are having an previous history the police can take an serious action to criminal. This may avoid some unwanted issue.

1. **SYSTEM TESTING AND IMPLEMENTATION**

**SYSTEM TESTING**

System testing is the process of exercising software with the intent of finding and ultimately correcting errors. This fundamental philosophy does not change for web applications, because Web-based systems and application reside on a network and interoperate with many different operating system, browsers, hardware platforms, and communication protocols; the search for errors represents a significant challenge for web application.

The distributed nature of client\server environments, the performance issues associated with transaction processing, the potential presence of a number of different hardware platforms, the complexities of network communication, the need to serve multiple clients from a centralized database and the requirements imposed on the server all combine to make testing of client\server architectures.

System testing is actually a series of different tests whose primary purpose is to fully exercise the computer based system. System testing is the state of implementation that is aimed at assuring that the system works accurately and efficiently. Testing is the vital to the success of the system. System testing makes the logical assumption that if all the parts of the system are correct, the goal will be successfully achieved.

**The objective of testing is as follows:**

* + Testing is the process of executing a program with the intent of finding an error.
  + A successful test is that one of the cover of undiscovered error.

### TESTING ISSUES

* Client GUI considerations
* Target environment and platform diversity considerations
* Distributed database considerations
* Distributed processing considerations

**TESTING METHODOLOGIES**

System testing is state of implementation, which is aimed at ensuring that the system works accurately and efficiently as expect before live operation commences. It certifies that the whole set of programs hang together.

System testing requires a test plan that consists of several key activities and step for run program, string, system and user acceptance testing. The implementation of newly designed package is important in adopting a successful new system

Testing is the important stage in software development. the system test in implementation stage in software development process. The system testing implementation should be confirmation that all is correct and an opportunity to show the users that the system works as expected. It accounts the largest percentage of technical effort in the software development process.

Testing phase in the development cycle validates the code against the functional specification testing is vital to achievement of the system goals. The objective of the testing is to discover errors to fulfills this objective a series of test step unit, integration. validation and system tests were planned and executed the test steps are:

**System Testing**

Testing is an important phase in project development. System testing makes a logical assumption that if all parts of the system are correct, and the goal will be achieved successfully. The software must meet the user specification and it must satisfy according to the needs of the users.

Testing is the process of executing a project within the intend of finding errors. A good test case is one that has a high probability of finding an undiscovered error.

**Unit Testing**

Unit testing focuses verification efforts on the smallest unit of software design of the module. This is also known as “module testing”. This testing is carried out during programming stage itself. In this testing step, each module is found to be working satisfactorily as regards to the expected output of the modules.

**In Project**, Each module such customer registration module, branch module, service details module, billing module, vehicle module and customer detail modules are tested individually for example, Customer details module can contain the more forms to maintain the information so all forms could be tested like entered information store appropriately in database access page or not. If correctly accessed means the testing of registration module successfully completed. Likewise all modules are tested successfully.

**Integration Testing**

Data can be lost across an interface, one module can have adverse effect on another sub function when combined it may not produce the desired major functions. Integration testing is a systematic testing for constructing test to uncover errors associated within an interface.

The objectives taken from unit tested modules and a program structure is built for integrated testing. All the modules are combined and the test is made.

A correction made in this testing is difficult because the vast expenses of the entire program complicated the isolation of causes. In this integration testing step, all the errors are corrected for next testing process.

**In Project,** Integration of two modules can be tested together such as customer registration details and customer login module for verification purposes providing proper accessibility to users. The communication of Registration and Login module can test and executed successfully.

**Validation Testing**

After the completion of the integrated testing, software is completely assembled as a package; interfacing error has been uncovered and corrected and a final series of software test validation begins.

Validation testing can be defined in many ways but a simple definition is that validation succeeds when the software function in a manner that can be reasonably expected by the customer. After validation test has been conducted, one of two possible conditions exists:

**In this project,** Admin login details form Enter without username and password in textbox enter the submit button then Login failed message otherwise checks the both textbox value that is true means valid page displayed. Enter Password Displaying password character \*.if it displays the characters security is not availed so testing of software is failed.

**Output Testing**

The next process of validation testing, is output testing of the proposed system, since no system could be successful if it does not produce the required output in the specified format. Asking the user about the format required, list the output to be generated or displayed by the system under considerations.

Output testing is a different test whose primary purpose is to fully exercise the computer based system although each test has a different purpose all the work should verify that all system elements have been properly integrated and perform allocated functions.

The output format on the screen is found to be corrected as the format was designed in the system design phase according to the user needs for the hard copy also; the output testing has not resulted in any correction in the system.

**In project** All the forms are tested as it gives the necessary output to the user’s search such as view response details.

1. **CONCLUSION:**

This project has been used by admin and users , which software should used for both customers and admin. The main objective of this project is an booking an vehicle service as an automation.

**FUTURE ENHANCEMENT**

In this vehicle parking management system we have plan to create a mobile application development for future enhancement, there's a lot of peoples was using an mobile application so it will be reach more to the customer, the way of communication is an may chance to increase by using mobile application.

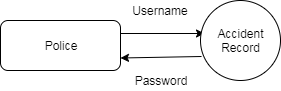
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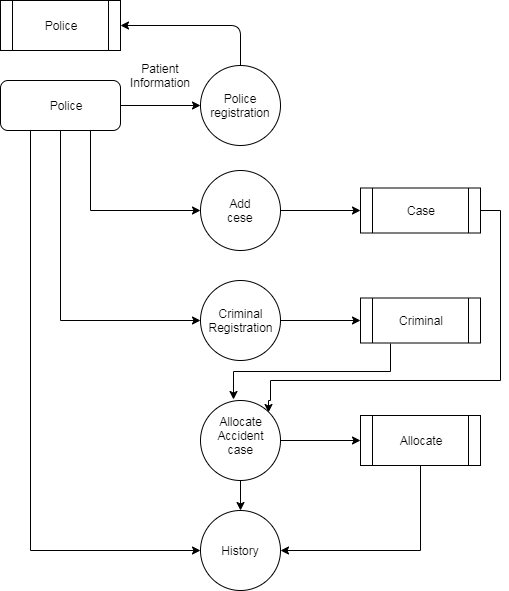
**APPENDICES**

1. **DATA FLOW DIAGRAM**

LEVEL 0:



LEVEL 1:



B. **TABLE STRUCTURE**

**TABLE NAME : Police**

**PRIMARY\_KEY :police\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD** | **DATA TYPE** | **SIZE** | **DESCRIPTION** |
| **Police\_id** | **Integer** | **10** | **Police\_id** |
| **Firstname** | **Varchar** | **30** | **First name** |
| **Last name** | **Varchar** | **30** | **Lastname** |
| **Department** | **Varchar** | **30** | **Department** |
| **Profession** | **Varchar** | **30** | **Profession** |
| **Username** | **Varchar** | **30** | **Username** |
| **Password** | **Varchar** | **30** | **Password** |
| **Fulladdress** | **Varchar** | **100** | **Address** |

**TABLE NAME : criminal**

**PRIMARY\_KEY :criminal\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD** | **DATA TYPE** | **SIZE** | **DESCRIPTION** |
| **criminal\_id** | **Integer** | **10** | **criminal\_id** |
| **Firstname** | **Varchar** | **30** | **First name** |
| **Last name** | **Varchar** | **30** | **Lastname** |
| **Mobilenumber** | **Integer** | **10** | **Mobile number** |
| **Aadhar number** | **Varchar** | **30** | **Aadhar number** |
| **Fulladdress** | **Varchar** | **100** | **Address** |

**TABLE NAME : case**

**PRIMARY\_KEY :case\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD** | **DATA TYPE** | **SIZE** | **DESCRIPTION** |
| **Case\_id** | **Integer** | **10** | **Case id** |
| **Case\_name** | **Varchar** | **30** | **Case name** |
| **Case description** | **Varchar** | **100** | **Case description** |

**TABLE NAME : allocate**

**PRIMARY\_KEY :allocate\_id**

**FOREIGN\_KEY :case\_id,criminal\_id**

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD** | **DATA TYPE** | **SIZE** | **DESCRIPTION** |
| **Allocate\_id** | **Integer** | **10** | **Allocate id** |
| **Case\_id** | **Integer** | **10** | **Case id** |
| **Criminal\_id** | **Integer** | **10** | **Criminal id** |
| **Fine** | **Integer** | **10** | **Fine amount** |
| **Accident issue** | **varchar** | **100** | **Accident issue** |
| **Aadhar number** | **Varchar** | **20** | **Aadhar number** |

**C. SAMPLE CODING**