**Detail Design**

1. **Introduction :**

The purpose of preparing this document is to explain complete design details of our Secured Mail Server.

This detailed design report will mainly contain the general definition and features of the project, design constraints, the overall system architecture and data architecture. Additionally, a brief explanation about our current progress and schedule of the project will be provided in related sections. Design of the system and subsystems/modules will be explained both verbally and visually by means of diagrams in order to help the programmer to understand all information stated in this document correctly and easily.

1. **Applicable documents :**

The documents used during detailed design are

* System Requirements Document
* System Design
* Database Design

1. **Structure of the software package** :

The Components are –

* + 1. **Student account module:** Student can login to the system to check Paid fees, balance amount, etc. Student can make payment through online.
    2. **Invoice Module:** Custom invoicing options for tuition, library and other student fees with options to apply tax and fine rules to the invoices. Creates a recurring invoices and automatic billing for repeat payment schedules. Configure and schedule fee collection with a systematic installment plan for student admissions.
    3. **Payment module:** This module enables students to view fee payments, while parents can check student balances and make payments. Even college staff can enter fee payment details. After making payment the system generates receipt.
    4. **Expense module:** This module stores expense transactions with expense type, expense amount, expense date, etc.
    5. **Payroll module:** This module generates monthly salaries of the employee. After making Payment the system generates Payslip.
    6. **Dashboard module:** This module stores Administrator and Employee records. Admin is having full authority of the website.
    7. **Settings module:** This settings module stores Income category details, expense category details, course details and others.
    8. **Income Expense Report:** This module displays income and expense report on daily, Weekly or monthly basis.

1. **Modular Decomposition Of Components :**

**4.1. Student Account Component:**

**4.1.1. Identification Of Modules :**

The modules identified in this component are:

* Student Login Module
* Fee payment module
* View invoice

**4.1.2. Structure chart for Student Account:**

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**4.2. Video based Advertisement Component:**

**4.2.1. Identification Of Modules :**

The modules identified in this component are:

* Publish video advertisement
* View published video advertisement
* View payments
* View published report

**4.2.2. Structure chart for Video based Advertisment:**

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**4.3. Text or scroll advertisment Component:**

**4.3.1. Identification Of Modules :**

The modules identified in this component are:

* Publish video advertisement
* View published video advertisement
* View payments
* View published report

**4.3.2. Structure chart for Text or scroll advertisement:**

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**4.4. Web based Advertising Component:**

**4.4.1. Identification Of Modules :**

The modules identified in this component are:

* Publish Text or banner based advertisements
* View published advertisement
* View payments
* View published report

**4.4.2. Structure chart for Web based Advertising:**

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**4.5. Payment Component:**

**4.5.1.Identification Of Modules :**

The modules identified in this component are:

* Payment for video advertisement
* Payment for Text or scroller advertisement
* Payment for web based advertisement
* Payment receipt
* View payment report

**4.5.2. Structure chart for Payment:**



**4.6. Program Component:**

**4.6.1. Identification Of Modules :**

The modules identified in this component are:

* Program schedule
* Number of video ads for each program
* Number of text/scroller ads for each program
* View program schedules

**4.6.2. Structure chart for Program:**



**4.7. News and Article Component:**

**4.7.1. Identification Of Modules :**

The modules identified in this component are:

* Publish news
* Publish article
* View Published news
* View published article

**4.7.2. Structure chart for News and Article:**



**4.8. Dashboard Component:**

**4.8.1. Identification Of Modules :**

The modules identified in this component are:

* Dashboard
* Add staff
* View staff

**4.8.2. Structure chart for Dashboard:**



**4.9. News broadcast Component:**

**4.9.1. Identification Of Modules :**

The modules identified in this component are:

* Add streaming video
* View streaming video
* Upload video
* View uploaded video

**4.9.2. Structure chart for News broadcast:**



**4.10. Tax Component:**

**4.10.1. Identification Of Modules :**

The modules identified in this component are:

* Add Tax type
* View tax type
* Tax calculation module

**4.10.2. Structure chart for Tax:**

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**4.11. Transaction Component:**

**4.11.1. Identification Of Modules :**

The modules identified in this component are:

* Payment report
* Scroll/text ads payment report
* Video ads payment report
* Website ads payment report

**4.11.2. Structure chart for Transaction:**

