FORWARD LINKAGE - SYSTEM FLOW MONITORING

Submitted by: Jithu V Udayan

Semester-3

Roll No : 31

KTE22MCA-2031

Guided by: Dr.Sangeetha Jose

Department Of Computer Application

Rajiv Gandhi Institute of Technology,Kottayam

29-November-2023

INDEX

- ◆ Gap Identification.
- ◆ Objectives.
- ◆ Materials And Methods.
- ◆ Result And Analysis
- ◆ Conclusion And Future Scope
- ◆ Git History
- ◆ Bibilography

Existing System	New System
Do not have a proper structure or order of execution.	Much more efficient, effective and user friendly system.
Executed manually using excel sheets and written documents.	Maintain proper structure and order. Reduced time. Improved service quality.
No proper track of user action and user authentication.	Increased transparency.
Human errors possibility is high.	Possibility of human error will be reduced.
Very complex manner.	Reports with reliable information.
Pending events are followed up manually or just ignored.	Reminders/Alerts for pending events.

OBJECTIVES

♦ Built online environment for a part of "Haritha Keralam Mission".

♦ To ensure effectiveness and efficiency of the system.

♦ Should gather data on all aspects of the System.

♦ Reliable data availability in customized way.

♦ Generate reminders for certain events.

♦ Less complex system which is easy to use.

♦ Ensures security.

# MATERIALS AND METHODS - TOOLS

Hardwarer Requirements

- ◆ Processor: 2.0 GHz or more.
- ◆ RAM: 2 GB DDR3.
- ◆ Hard Disk Space: 2 GB free hard disk space
- ◆ Input Device : Mouse, Keyboard
- ◆ Output Device: Monitor with 1280 x 720 resolution, Printer

Software Requirements

- ◆ Operating system: Linux/Windows Based OS.
- ◆ Languages: PHP version 5.2.5
- ◆ Database: MySQL 5.0.1
- ◆ Webserver: XAMPP Version 3.3.0
- ◆ Browser: Google Chrome (edge or chrome).
- ◆ Code Editor: Visual Studio Code
- ◆ Diagramming: Lucid Chart.

Data Flow Digram
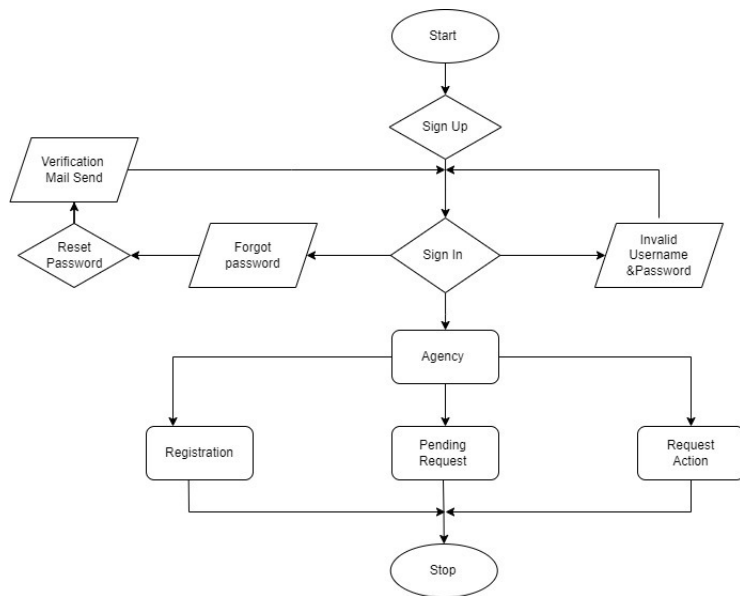
Adding Users

♦ Adding diferent types of users.

♦ The data which is adding changes according to the user type.

♦ Main users have the privilege to add users who are under them.

Login

♦ Validation of username and password.

♦ Redirecting to the home page based on the user type of the individual signing in

Forgot Password
- ◆ Resetting the password.
- ◆ Verification email is there to verify the user.

Agency Registration
- ◆ New agencies can register.
- ◆ The approval of the admin makes the registration successful.

Implementation of security measures

◆ SQL Injection Protection.

There is no raw SQL query used.
The system employs 'mysqli prepared statements' for all database interactions, which eliminates most risks of SQL injection

◆ Header and Email Injection Protection

Uses the 'cleaninjections()' function to filter and validate data.
All data entered by users for any functionality is checked for header injection before being used.

♦ CSRF Protection

> CSRF token validation prevents Cross-Site Request Forgery attacks.
> The csrf protection works for all forms regardless of whether the user is logged in or not.

CONCLUSION :

♦ **Easy to interact:**User-friendly interface for easy data management.

♦ **Scalability:** Scales easily with growing data and user needs.

♦ **Secure data management:** Data is stored securely and Prevents attacks.

♦ **Real-Time Updates:** Data is kept current with simultaneous, online collaboration.

♦ **Remote Monitoring:** Real-time monitoring of activities, even off-site.

FUTURE SCOPE :

♦ **Single Comprehensive Waste Management System.**By including Base level HKS waste collection details to Release inclusive version.

♦ **Automated Real-Time Management:** Implement automated features to send reminders and alerts.

♦ **Mobile Application:** System can be changed to a highly secure mobile application.

GIT HISTORY

🗂 Jithu V udayan / miniproject

Haritha karma

Here's where you'll find this repository's source files. To give your users an idea of what they'll find here, add a description to your repository.

🎋 master ⌄		Files ⌄	Filter files 🔍

📁 /

Name	Size	Last commit	Message
📁 Agency		6 hours ago	integrated
📁 Agency_in		6 hours ago	integrated
📁 Login-System		6 hours ago	integrated
📁 aft		6 hours ago	integrated
📁 district		6 hours ago	integrated
📁 secretary		6 hours ago	integrated
📁 v1		6 hours ago	integrated

GIT HISTORY

MCA_mini_project `Private`

👁 Unwatch 1

🔀 main ▾ | 🔀 1 branch | 🏷 0 tags

Go to file | Add file ▾ | `<>` Code ▾

🔴 **Jithu02487** verification mail updation in password-reset

3572713 on Oct 12 | 🕐 **4 commits**

📁 assets	verification mail updation in password-reset	last month
📁 contact	first committtt	last month
📁 dashboard	first committtt	last month
📁 home	first committtt	last month
📁 login	verification mail updation in password-reset	last month
📁 logout	first committtt	last month
📁 profile-edit	first committtt	last month
📁 profile	first committtt	last month
📁 register	verification mail updation in password-reset	last month
📁 reset-password	verification mail updation in password-reset	last month
📁 verify	first committtt	last month

BIBLIOGRAPHY

1)Thomas A .Powell,"HTML and CSS: The Complete References",5th edition,2010,McGrawHill.

2)Thomas A .Powell,"PHP: The Complete Book",5th edition,2007,McGraw Hill.

3)Raghu Ramakrishnan and Johannes Gehrk,"Database Management Systems",3rd Edition,2014,McGraw Hill

4)Kudumbashree."Kudumbashree",Kudumbashree About : Haritha Karma Sena,https://kudumbashree.org/pages/677

5)LSGD."LSGD",Haritha Karmasena formation and operation- Guidelines, https://lsgkerala.gov.in/en/news-kudumbashree proceedings/

THANK YOU