Tasks Manger

Software Requirements Specification

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# Introduction

## Purpose of project

Make a web program that helps the team to control the program and tasks. This program will improve programming speed through the team leader sending tasks to the team and upon completion, the program sends a report to the leader, also the program can be used to manage any institutional work due to the lack of complexity of the program and its effectiveness in increasing production in addition to ensuring that the specified time is maintained for the performance of any task and most importantly is the distribution of tasks so that the work is completed in the best way.

The document is expected to be read by all project participants, including project managers, project planners, system designers, developers, testers, and so on.

## Definition

|  |  |  |
| --- | --- | --- |
| Number | Terminology | Object or meaning |
| 1 | Java | is an interpreted, high-level, general-purpose programming language. |
| 2 | MySQL | is an open-source relational database management system |
| 3 | HTML | is an interpreted, high-level, general-purpose programming language. |
| 4 | JavaScript | is an interpreted, high-level, general-purpose programming language. |
| 5 | CSS | is an interpreted, high-level, general-purpose programming language. |

## Reference

1. "Software Requirements Specification"
2. "Software Design Documents"
3. "Software Testing Documents"
4. "Software Deployment and Use Documents"
5. "Manuals for Division of Labor

# Project Overview

## Work content

**2.1.1 Main work content**：

1) Identify the needs of tasks manger, create a needs analysis report.

2) Analysis of product requirements, system requirements, etc.

3) Detailed system design, provide detailed design plan report

4) Product development (coding), design implementation

5) Testing

6) Debugging the system application

7) System post-maintenance

**2.1.2 Key features** ：

Administrator (reception staff):

1. New members registration
2. Delete members
3. Can read all the data in
4. Changing the status of the task (done, on progress, late, not done)

Manager:

1. Edit access of the administrator
2. Add a new administrator
3. Get the tasks statistics report
4. Check the status of his/her team and their progress
5. Can gave members notes or send notifications

Team

1. Create a new account
2. Join a team
3. Receive notifications and tasks from team leader
4. Update tasks status (done, on progress, late, not done)

## Product

2.2.1 App

1. Web application
2. Development language is Java, CSS, HTML, JavaScript
3. Data base is MySQL

2.2.2 Documentation

1) Software Requirements Specification (软件需求规格说明书)

2) Software design documentation (软件设计文档)

3) Software testing documentation (软件测试文档)

4）Software deployment usage documentation (软件部署使用文档)

5）Manual of division of Labor (人员分工说明书)

## Operating environment

Development environment and supported browser software：

Supported OS: Windows, Mac OS, Linux, Android, IOS

Development tools: Visual Studio Code, MySQL Workbench

Database management system: MySQL 8.0

Developer OS: Windows 10

## Support

The following services are supported:

Technical support: online guide, online support email, WeChat, WhatsApp.

Software maintenance: troubleshooting problems found while using the software. Providing a corrected version of the app.

Software update: available.

## Acceptance standard

The "Tasks Manger" development process should be conducted in accordance with the "Software development process specification", and the project evaluation should be conducted in accordance with the "Project specification", and the project team evaluation should be conducted in accordance with the "Software development methodology".

The life cycle of a project is carried out in accordance with the requirements of Agile.

Pre-sale documentation: system development report, feasibility study, system development plan, system analysis guide, system design guide. After submitting the program development report, system test plan, and test report, system usage instructions and maintenance manual, system evaluation report, monthly system development report, and system development summary report.

# Implementation plan



## Group composition and assignment

Leader of group：伊万

Tasks:

1) The system's overall development plan and all kinds of documents and materials finishing

2) Organize a group discussion at least once a week to list this week's development plan

3) Management of project development progress

4) Organization and coordination of the team

Designer：叶寒

Tasks:

1) Participation in a panel discussion

2) System requirements analysis and system design

3) Responsible for the system requirements specification and the system design specification

4) Write a test plan and participate in system testing

5) Assist documentation personnel to complete user-related documents

Developer：胡萨

Tasks:

1) Participation in a panel discussion

2) Complete the coding according to the design and comment

3) To carry out unit testing and maintain the system to ensure the normal operation of the system

4) Assist documentation personnel to complete user-related documents

## Progress

|  |  |  |
| --- | --- | --- |
| No. | Task name | Working time |
| 1 | Market research and project planning | 4 days |
| 2 | Feasibility analysis and completion of feasibility study report | 4 days |
| 3 | Complete the project development plan | In a process |
| 4 | Team members to find information, conduct demand research and demand analysis | 2 days |
| 5 | Organize research materials, complete requirements specifications, and accept | In a process |
| 6 | Software design | In a process |
| 7 | Database design | In a process |

## Budget

|  |  |  |
| --- | --- | --- |
| Title | Expenses (thousand） | Description |
| Equipment costs | Unknown | 3 PCs |
| Software costs | Unknown | Developing software. Office software. |

## Key issues

Key issues affecting the success of the project, including technical difficulties and potential risks.

|  |  |  |
| --- | --- | --- |
| Risk description | Possibility | Effect |
| User requirements are unclear, there is a lack of understanding, or requirements are changed/added during development | 30% | 90% |
| Using some technologies (frameworks) is incorrect | 20% | 70% |
| Rare communication between group members leads to misunderstandings, poor design, incorrect interface, and extra work | 60% | 60% |
| Problems with software integration | 60% | 50% |
| Insufficient or unreliable project testing | 50% | 70% |

Solution：

1) The project requirements specification requires precise words, language specifications, and includes software quality management；

2) Members of the project team must carefully follow the relevant rules of project development, clear division of labor, monitor and monitor progress, quality control of the project team responsible for preparation；

3) carry out strict project quality control, monitoring and evaluation of progress to ensure quality and development progress；

4) Common interface Design, interface definition specification；

5) The adoption of Mature advanced technology to accelerate the progress of research on some technical problems, can refer to third-party technology relative to the Mature and stable plug-in；

6) According to the software requirements for developing test cases, unit testing each module, writing test reports, and evaluating tests.

# Organization and division of work



## Organization of the structure

Employees for design and development :

UI PC app design PC app: 1 person

Back-end PC app: 1 person

Database implementation: 1 people

Tester: 1 people

## Division of tasks and responsibilities

Members of this group: 伊万，叶寒，胡萨

Table of tasks and responsibilities：

|  |  |
| --- | --- |
| employee | responsibility |
| 伊万 | Feasibility analysis, document organization, back-end implementation, summary design |
| 叶寒 | Requirements analysis, problem analysis, detailed design, database design |
| 胡萨 | Test maintenance, UI design and implementation, architecture design |

# Feasibility analysis



## Technical feasibility analysis

**General analysis:**

For the sake of ease of running the program anywhere and at any time, we decided to make it a web program to ensure time conservation and speed up the performance of tasks.

**Specifics of the development:**

As mentioned earlier, this is a Web app. Now there is a lot of experience in developing Web applications, and any technologies are available, so the complexity of the project is not great.

The development language of the Web applications are Java, CSS, JavaScript, and HTML.

The database will on MySQl, as it supports all modern database management tools.

## Operational feasibility

The application must be opened on any browser of the administrator (receptionist). Registered users can log in to applications, and the Manager has the right to register administrators.

The database can be located on the servers with the application or on a dedicated local server (at the administration discretion).

To maintain the system, the developer must be present and have access to the browser with the application.

## Economic feasibility analysis

Our app would be free so every manger can use it and rase the quality of the work also save time.

## Summery

Tasks manger is an app that has the ability to improve the quality of the team work, make it easy to members to follow their leaders so they can finish their tasks, moreover they can keep updating the new statuses for the work.

This app can help mangers to divide the big tasks into small tasks with more people to accomplish them.

Due to the limit time ,in the future we hope we can add more futures to our app and improve it.