



Daffodil
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University

Employee Performance Evaluation and Task Monitor

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This Project report has been submitted in fulfillment of the requirements for the Degree of
Bachelor of Science in Software Engineering.

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Fall-2018

Letter of Approval

This **Project** titled “**Employee Performance Evaluation and Task Monitor**”, submitted by **Minhaz Khan Shawon, 151-35-1065** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

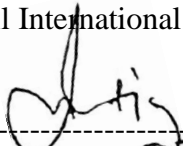
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Declaration

I hereby declare that, this project report submitted to the Daffodil International University, is a record of an original work done by me under the supervision of Mr. Asif Khan Shakir lecturer at the department of Software Engineering, Daffodil International University.

I also declare that neither the project nor the records in this document has been submitted or will submit to any other university or institute for the award of any degree or diploma.

Submitted by:


.....

Minhaz Khan Shawon

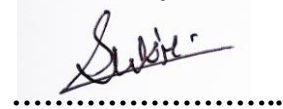
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Acknowledgement

I acquaint my thankfulness and gratefulness to almighty God for His blessing that makes me possible to complete the final year project successfully.

Aside from the endeavor of me, the success of any work depends on the guidelines of many others. I take this chance to express my thankfulness to the people who have been helping me to the successful completion of this project. I would like to thank Mr. Asif Khan Shakir, project supervisor, I can't be thankful enough for his tremendous support and help. Without his guidelines and motivations in this project I would not have done it successfully.

I would like to show my thankfulness to Professor Dr. Touhid Bhuiyan the Head of Department of Software Engineering, for his kind help to finish our project and also to other faculty member and the staff of Software Engineering department of Daffodil International University.

Dedication

At first I dedicate this work to Almighty Allah for His blessing that makes me possible to complete this successfully. Almighty Allah gave me the power and confidence to done my project and this document. I also dedicate this work to my parents who always love me and pray for me and I also dedicate this work to my university and its people who always support me most.

Abstract

The profitability of a company depends on the performance of the employees. To monitor the tasks of an employee, task monitoring system is very important. There is many systems existing for monitoring task but there is much complexity in these systems. The task monitoring system should be easy to learn and easy to use and also very effectual and worth full to monitor the tasks and employees for the betterment of any organization. I wanted to develop such a system that will be useful and worth full. I developed a system that is user friendly and easy to maintain. I found that the system is easier than other systems.

The “Employee performance evaluation and task monitoring” project is divided into four parts. Part one is user get registered into the system. Part two is manager create and assigns the tasks to the employees. Part three is employees get tasks and update task progress. Part four is manager gets all outcomes and results.

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Chapter 1

Introduction

1.1 Project Overview

The “Employee performance evaluation and task monitoring system” help the manager to monitor their employees and their assign tasks and also help to evaluate the performance of the employees.

1.2 The Purpose of the Project

Employee performance evaluation and task monitoring system helps to create task and assign task to the employee. This System gives a scope for manager to assign task and monitor the task without wasting time. The manager can decide which employee will do the task and can evaluate performance by the task submission on time.

1.2.1 Project Background

Many organizations have realized that keeping employee data and task record is harder to maintain and monitor so there is many task manager in the industry to monitor the task, so I have this idea to develop such a system that will help managers to manage and assign task to their employee and keep monitoring the task progress which is very simple user friendly and easy to understand and use and will do the job perfectly.

1.2.2 Beneficiaries and Benefits

This system is user friendly and easy accesses to data as well as services such as task management, project management and employee tracking, employee performance evaluation. The employee have direct interaction with this system through a password protected user account therefore proposed system is secured. This system is accessible from any location as long as internet connectivity is available Without an employee monitoring system, it's a complex job for the department to keep track of each and every employee and even harder for a project manager to assign tasks to the project team.

1.2.3 Goals of the Project

This system brings an easy way for maintaining the details of employee task project details and update work progress in any organization. It helps a manager to control the project, task and employee.

1.3 Stakeholders

The Stakeholders of the system will be limited to the following:

1. Manager
2. Employee

1.4 Proposed System Model (block diagram)

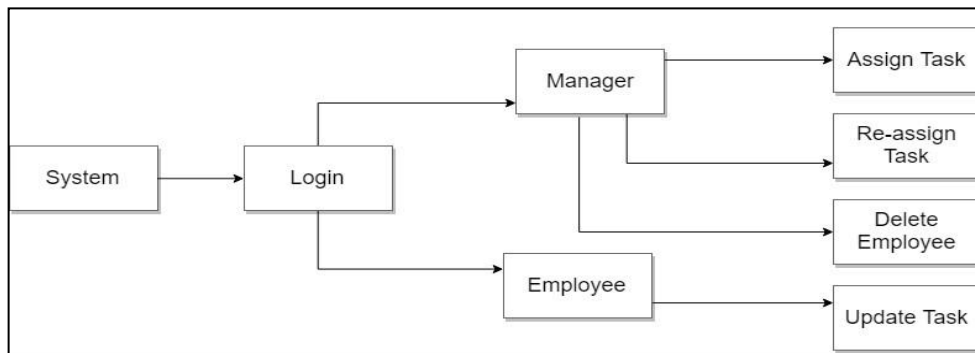


Figure 1 : Block Diagram of Employee Performance and Task monitor

1.5 Project Schedule

1.5.1 Gantt Chart

| Task/Date | Start date | End date | Status | July | August | September | October | November |
|----------------|------------|------------|----------|------|--------|-----------|---------|----------|
| Proposal | 08-07-2018 | 10-07-2018 | Complete | | | | | |
| Requirements | 23-07-2018 | 01-08-2018 | Complete | | | | | |
| Design | 01-08-2018 | 06-09-2018 | Complete | | | | | |
| Implementation | 09-09-2018 | 30-10-2018 | Complete | | | | | |
| Testing | 10-11-2018 | 22-11-2018 | Complete | | | | | |
| Documentation | 22-11-2018 | 30-11-2018 | Complete | | | | | |

Figure 2 : Gantt chart for Employee Performance and Task monitor

Chapter 2

Software Requirement Specification

2.1. Functional Requirements (FR)

Table 1: Functional requirements

| FR ID | FR Name | Description | Priority |
|-------|------------------|--|----------|
| FR1 | Registration | The module will provide registration form | High |
| FR2 | Login(Manager) | The module will provide the reports of all the logged in users | High |
| FR3 | Login(Employee) | The module will provide the reports of all the logged in users | High |
| FR4 | Add Task | The module will provide the report for the adding task details to the employee | Medium |
| FR5 | Edit/Remove Task | The module will provide the edit/remove task form | Medium |
| FR7 | Update Task | The module will provide the task to update | Medium |
| FR6 | Employee List | The module will provide the employee list | Low |
| FR8 | Delete Employee | The module will remove the employee | Low |

2.2. Performance Requirements

2.2.1. Speed and Latency Requirements

1. Data should update in database within 1 second.
2. Query should bring result within 2 second.
3. UI design should load within 5 second.
4. Validation error should show within 1 second.

2.2.2. Precision or Accuracy Requirements

1. After login the index should show the accurate data for the specific user.
2. The time and date should accurate on the task forms.
3. The registration form should provide accurate data to store in database.
4. The user should get the accurate data which is assigned to them.

2.2.3. Capacity Requirements

1. Not more than 10000 users to be registered.
2. Not more than 100 users should login at the same time.

2.3. Dependability Requirements

2.3.1. Reliability Requirements

1. The User registration should register a new user and update database with given input.
2. The Task Assign form should assign a task with given input.
3. Log in should perform when the correct user name and password is given.
4. The Delete form should delete a user and update the database.
5. The Task Progress should show the value when individual

updates given.

2.3.2. Availability Requirements

1. The system should available 24 hours a day and 7 days a week.
2. The system should perform activities immediately upon user request.
3. The system should run in any web browser.

2.4. Maintainability and Supportability Requirements

2.4.1. Maintenance Requirements

1. Modify the system when the software environment changes.
2. Fix bug when the system is corrupted.
3. Fix accidental data mistakes by user.

2.4.2. Supportability Requirements

1. Provide documentation for user guidance.

2.5. Security Requirements

2.5.1. Access Requirements

1. Only registered user can login to the system.
2. Only user holding the role of “Manager” can assign a task, modify event, view employee list and delete employee.

2.6. Usability and Human-Interaction Requirements

2.6.1. Ease of Use Requirements

1. The system UI should user friendly.
2. The system should operate easy task management.
3. The new user should learn the system.
4. The system maintenance should not complex.

2.6.2. Understandability and Politeness Requirements

1. Any user should understand the system.
2. Non technical parson should operate also.

2.6.3. Accessibility Requirements

1. The system should accessible from any other devices.
2. User should access their account within a request.

2.7. Look and Feel Requirement

2.7.1. Style Requirements

1. The task monitor should look like a calendar where the tasks will be assigned.

2.8. Legal Requirements

2.8.1. Standards Requirements

1. The employee should register their account with company email id.
2. The manager should assign task within the company privacy and policy.

Chapter 3

System Analysis

3.1. System Use case

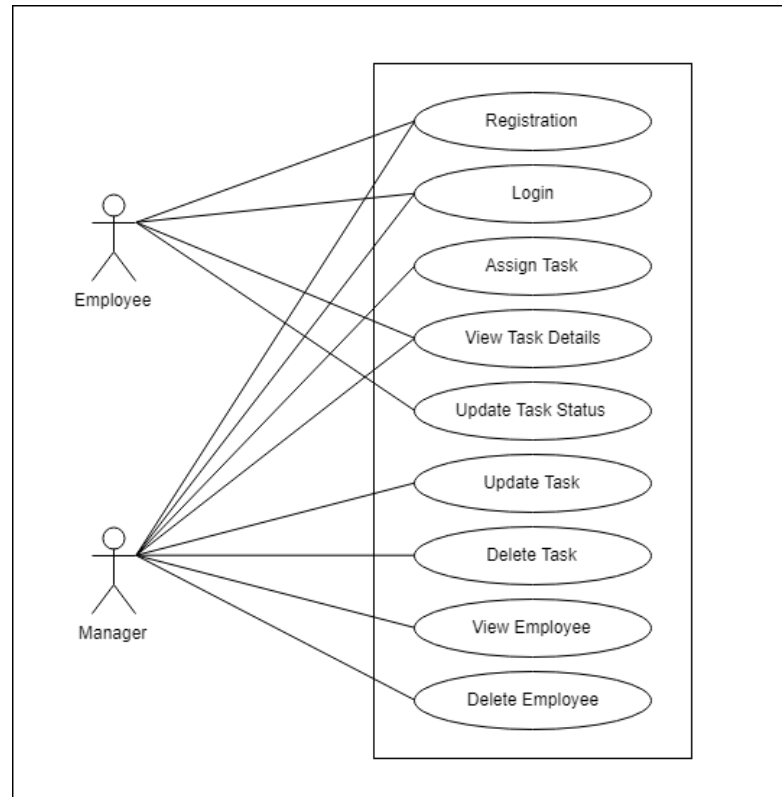


Figure 3: System Use Case Diagram

3.2. Use Case Description

Table 2: Use Case Description (Registration)

| | |
|---------------------|--|
| Use Case Name | Enter Relevant Data to Registration |
| Scenario | Employee register account |
| Actor | Employee |
| Pre-condition | The system has supported with a Database to store Data |
| Post-condition | Personal information is stored |
| Flow of events | The employee enters information data |
| Exception condition | Employee enters wrong inputs |

Table 3: Use Case Description (Login)

| | |
|---------------------|---|
| Use Case Name | Enter Relevant Data to Login |
| Scenario | User login to the system |
| Actor | Both User and Employee |
| Pre-condition | The system has to keep a record about that login |
| Post-condition | Personal information has to be stored before login |
| Flow of events | The User enters relevant data like user name, password. The system matches data with the stored database. The system gives access to manager based on role. |
| Exception condition | Cant access the account |

Table 4: Use Case Description (Assign Task)

| | | |
|----------------------|---|--|
| Use Case Name: | Assign task | |
| Scenario : | Manager assigning course | |
| Brief Description: | Manager can assign a task, reassign a task and delete a task. | |
| Actor: | Manager | |
| Precondition: | Must need to login to the system | |
| Post condition: | Assign the task | |
| Flow of events: | Manager | System |
| | 1. User must have an account for assign a task 2. Assign the task by employee | 1. Confirm the valid login 2. Confirm task assign |
| Exception Condition: | <ol style="list-style-type: none"> 1. If manager can't enter the valid user name or password can't enter the system 2. Can't assign or re-assign the task | |

Table 5: Use Case Description (View Task Details)

| | | |
|--------------------|--|--|
| Use Case Name: | View Task Details | |
| Scenario : | User view the Task Details | |
| Brief Description: | User view and update the task details | |
| Actor: | Both Employee and Manager | |
| Pre-condition: | Must need to login to the system | |
| Post-condition: | Task Details | |
| Flow of events: | Employee or Manager | System |
| | <ol style="list-style-type: none"> 1. User must have an account for view the assigned task details 2. View Task details 3. Update task status | <ol style="list-style-type: none"> 1. Confirm the valid registration 2. Confirm the valid login 3. Confirm view task details 4. Confirm update task status |

Table 6: Use Case Description (Update Task Status)

| | | |
|----------------------|--|---|
| Use Case Name: | Update Task Status | |
| Scenario : | Employee updates the task progress | |
| Brief Description: | Employee can updates the task progress as it is done or in progress | |
| Actor: | Employee | |
| Pre-condition: | Must need to login to the system | |
| Post-condition: | Update Task Status | |
| Flow of events: | Employee | System |
| | <ol style="list-style-type: none"> 1. User must have an account to update task status. 2. Update the task progress | <ol style="list-style-type: none"> 1. Confirm the valid login 2. Confirm task status update |
| Exception Condition: | <ol style="list-style-type: none"> 1. If employee can't enter the valid user name or password can't enter the system 2. Can't update the task progress | |

Table 7: Use Case Description (Update Task)

| | | |
|----------------------|---|---|
| Use Case Name: | Update Task | |
| Scenario : | Manager updates the task | |
| Brief Description: | Manager updates the details of the task like the time, date, details and assigned employ | |
| Actor: | Manager | |
| Pre-condition: | Must need to login to the system | |
| Post-condition: | Update Task | |
| Flow of events: | Manager | System |
| | <ol style="list-style-type: none"> 1. User must have an account for updating a task 2. Updating a task details | <ol style="list-style-type: none"> 1. Confirm the valid login 2. Confirm task updates |
| Exception Condition: | <ol style="list-style-type: none"> 1. If manager can't enter the valid user name or password can't enter the system 2. Can't updates a task | |

Table 8: Use Case Description (Delete Task)

| | | |
|----------------------|--|--|
| Use Case Name: | Delete Task | |
| Scenario : | Manager deletes the task | |
| Brief Description: | Manager deletes a task | |
| Actor: | Manager | |
| Pre-condition: | Must need to login to the system | |
| Post-condition: | Task deleted | |
| Flow of events: | Manager | System |
| | <ol style="list-style-type: none"> 1. User must have an account for updating a task 2. Deletes a existing task | <ol style="list-style-type: none"> 1. Confirm the valid login 2. Confirm delete a task |
| Exception Condition: | <ol style="list-style-type: none"> 1. If manager can't enter the valid user name or password can't enter the system 2. Can't delete a task | |

Table 9: Use Case Description (View Employee)

| | | |
|----------------------|--|---|
| Use Case Name: | View Employee | |
| Scenario : | View employee info | |
| Brief Description: | View the registered employee list | |
| Actor: | Manager | |
| Pre-condition: | Must need to login to the system | |
| Post-condition: | Employee list | |
| Flow of events: | Manager | System |
| | <ol style="list-style-type: none"> 1. User must have an account for updating a task 2. View employee info list | <ol style="list-style-type: none"> 1. Confirm the valid login 2. Confirm employee list view |
| Exception Condition: | <ol style="list-style-type: none"> 1. If manager can't enter the valid user name or password can't enter the system 2. Can't view the list of employee | |

Table 10: Use Case Description (Delete Employee)

| | | |
|----------------------|---|---|
| Use Case Name: | Delete Employee | |
| Scenario : | Manager deletes an employee | |
| Brief Description: | Manager deletes an employee from the employee list | |
| Actor: | Manager | |
| Pre-condition: | Must need to login to the system | |
| Post-condition: | Employee deleted | |
| Flow of events: | Manager | System |
| | <ol style="list-style-type: none"> 1. User must have an account for updating a task 2. Deletes a existing employee from the list | <ol style="list-style-type: none"> 1. Confirm the valid login 2. Confirm delete an employee |
| Exception Condition: | <ol style="list-style-type: none"> 1. If manager can't enter the valid user name or password can't enter the system 2. Can't delete an employee | |

3.3. Activity diagram

3.3.1. Activity diagram (Registration)

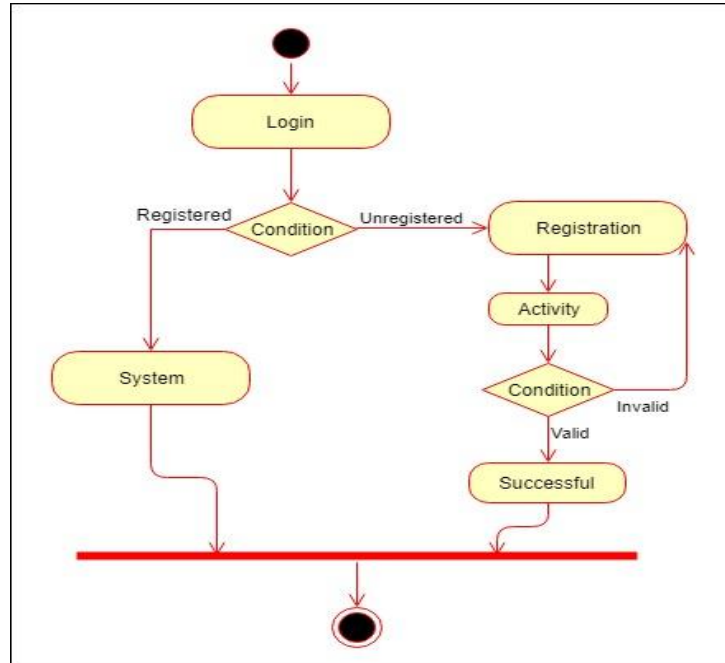


Figure 4: Activity Diagram for Registration

3.3.2. Activity diagram (Login)

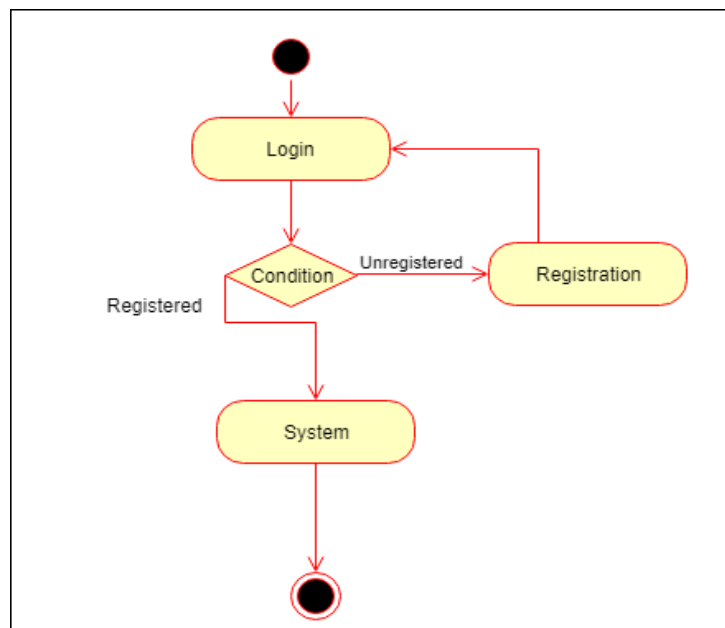


Figure 5: Activity Diagram for Login

3.3.3. Activity diagram (Assign Task)

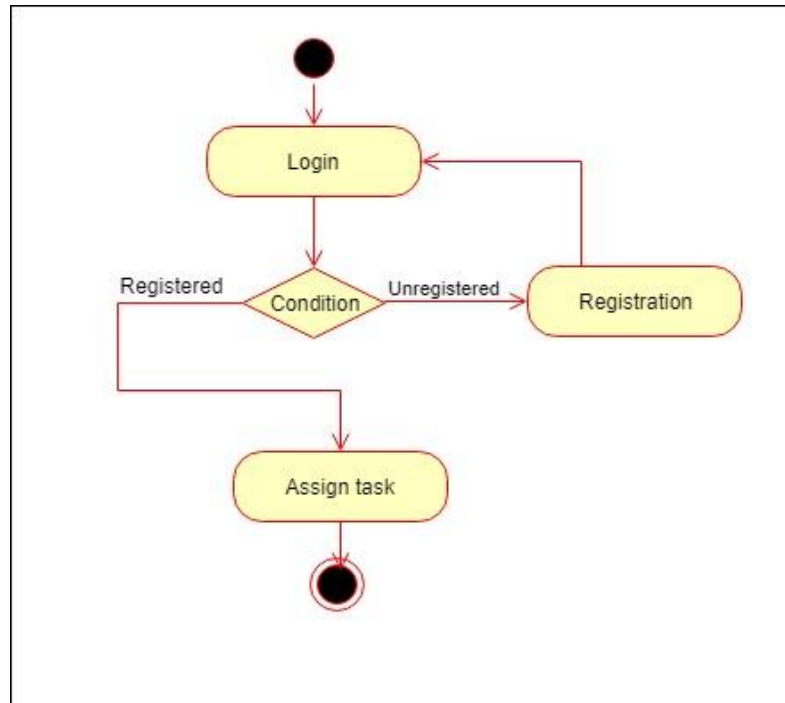


Figure 6: Activity Diagram for Assign Task

3.3.4. Activity diagram (Update Task Status)

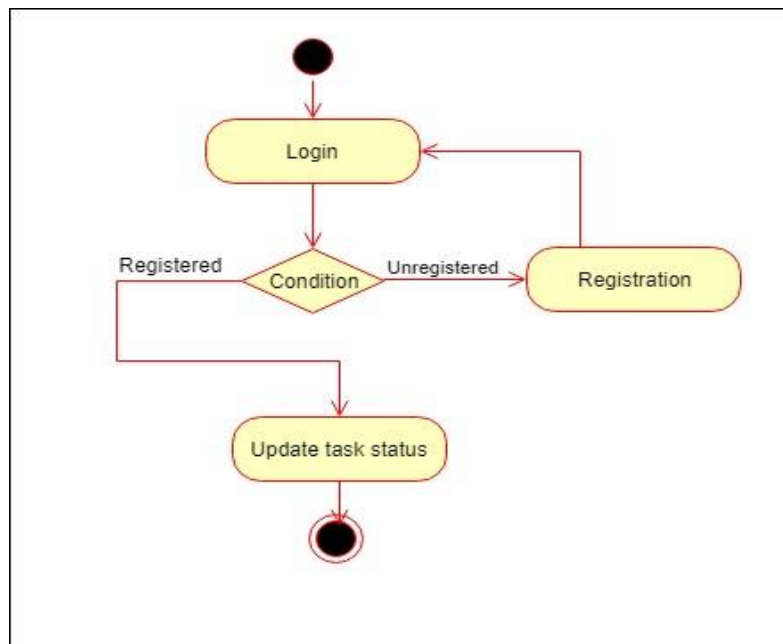


Figure 7: Activity Diagram for Update Task Status

3.3.5. Activity diagram (View Task Details)

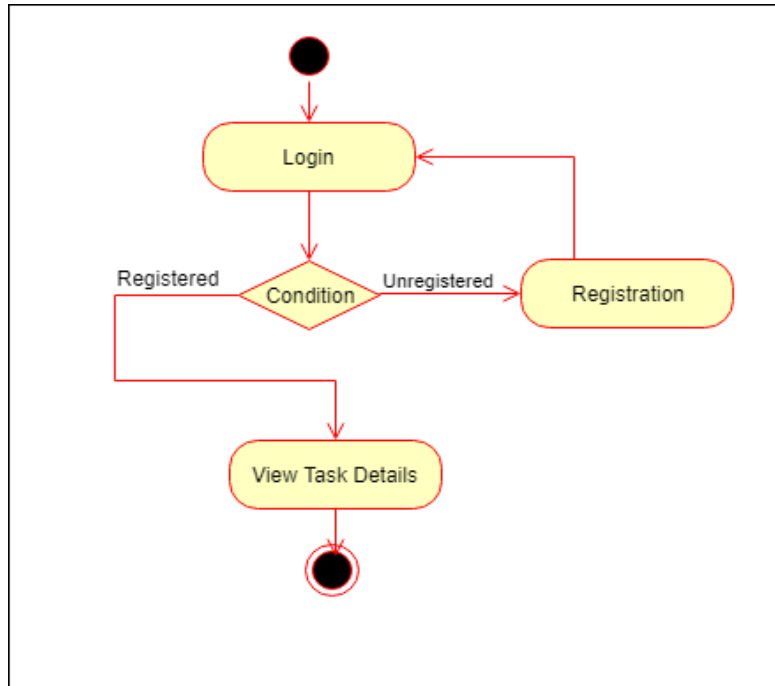


Figure 8: Activity Diagram for View Task Details

3.3.6. Activity diagram (Update Task)

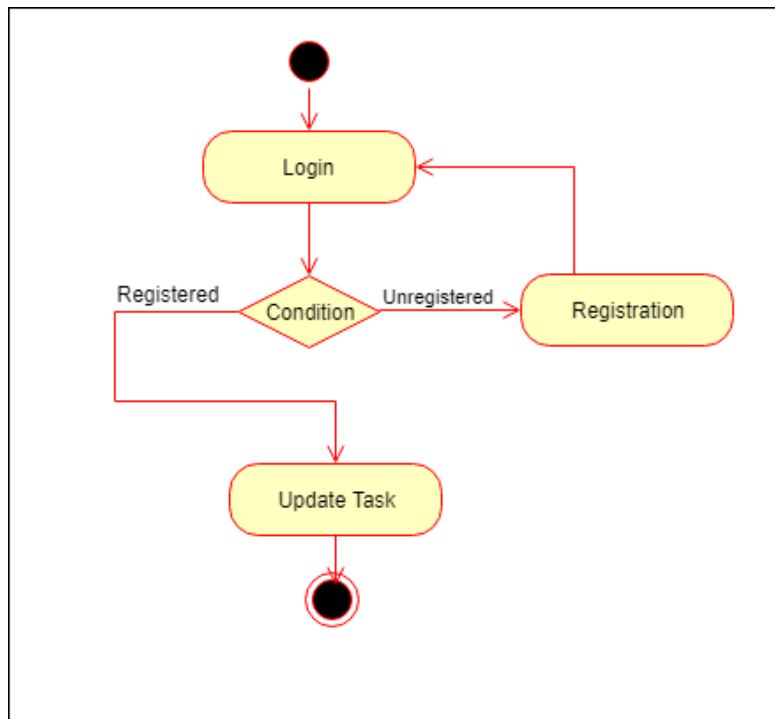


Figure 9: Activity Diagram for Update Task

3.3.7. Activity diagram (Delete Task)

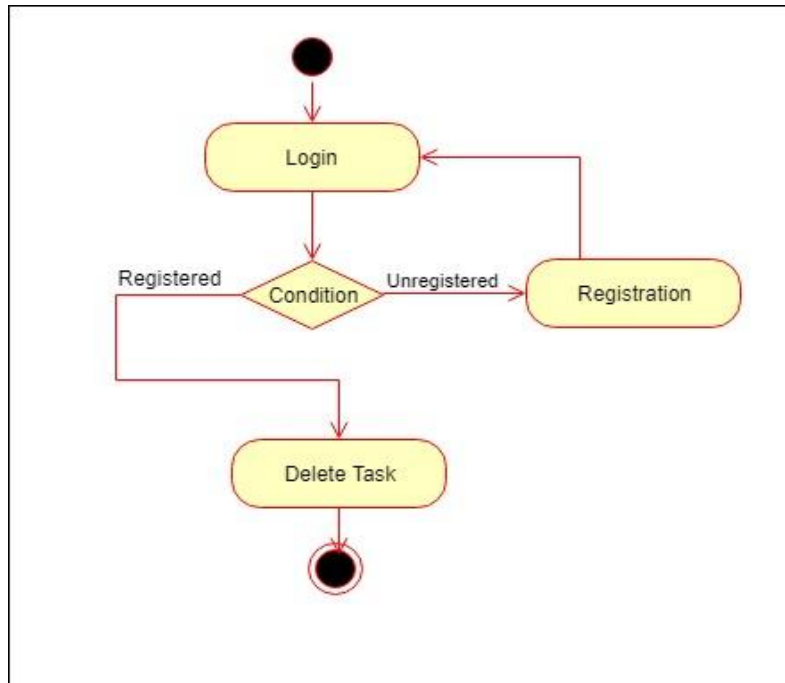


Figure 10: Activity Diagram for Delete Task

3.3.8. Activity diagram (View Employee)

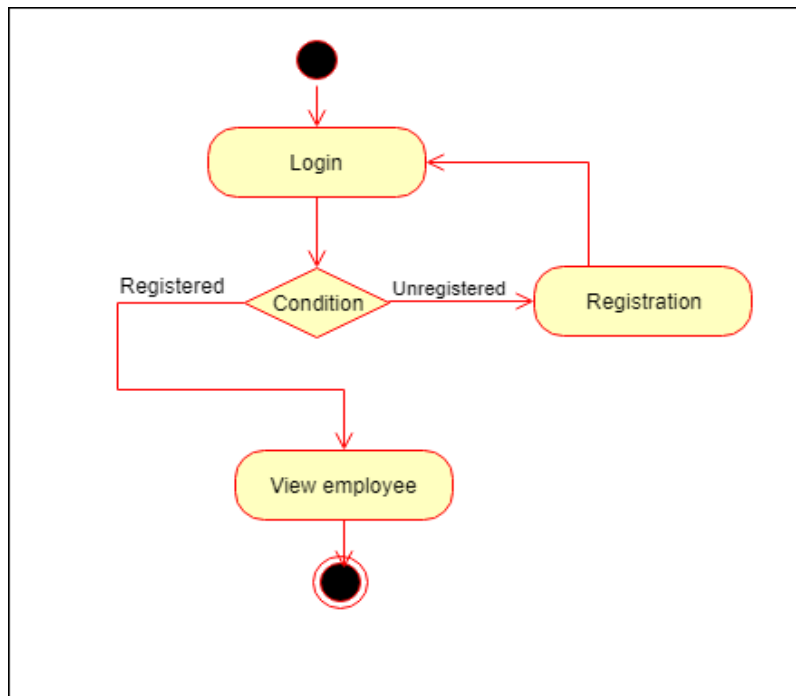


Figure 11: Activity Diagram for Delete Task

3.3.9. Activity diagram (View Employee)

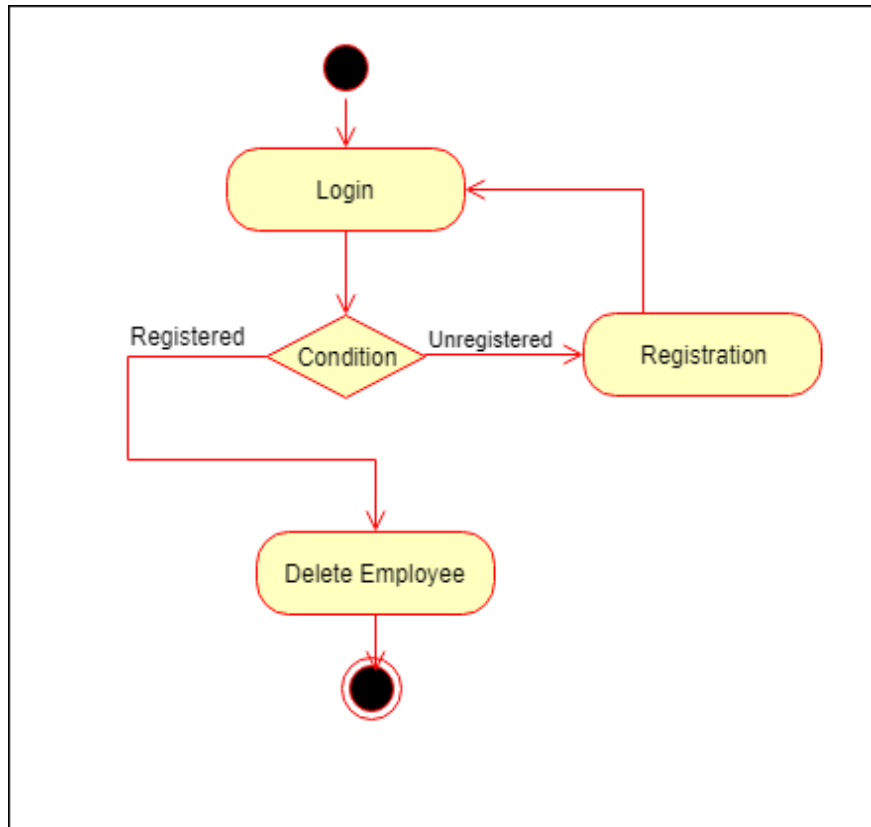


Figure 12: Activity Diagram for Delete Task

Chapter 4

System Design Specification

4.1. Sequence Diagram

4.1.1. Sequence Diagram for Login into System

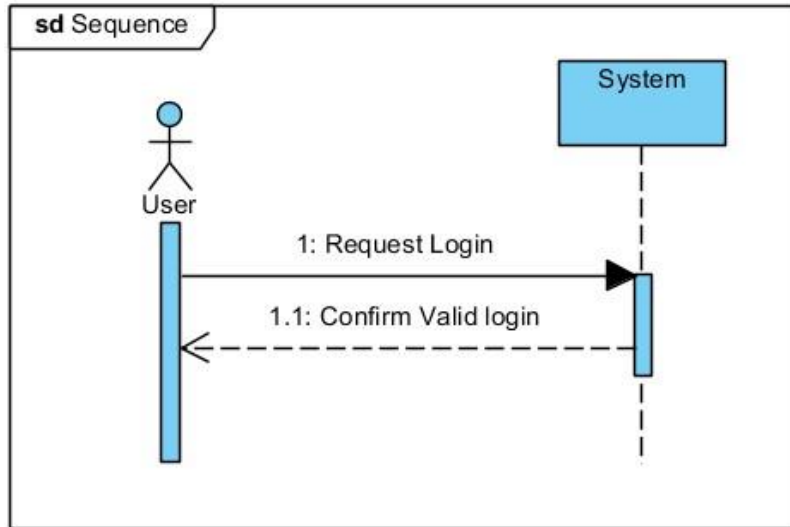


Figure 13: System Login

4.1.2. Sequence Diagram for Registration

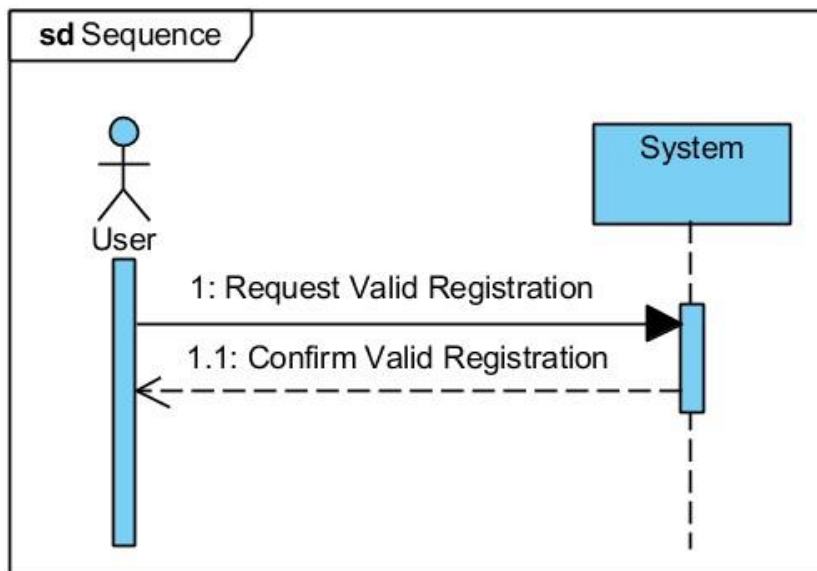


Figure 14: System Registration

4.1.3. Sequence Diagram for View Task Details

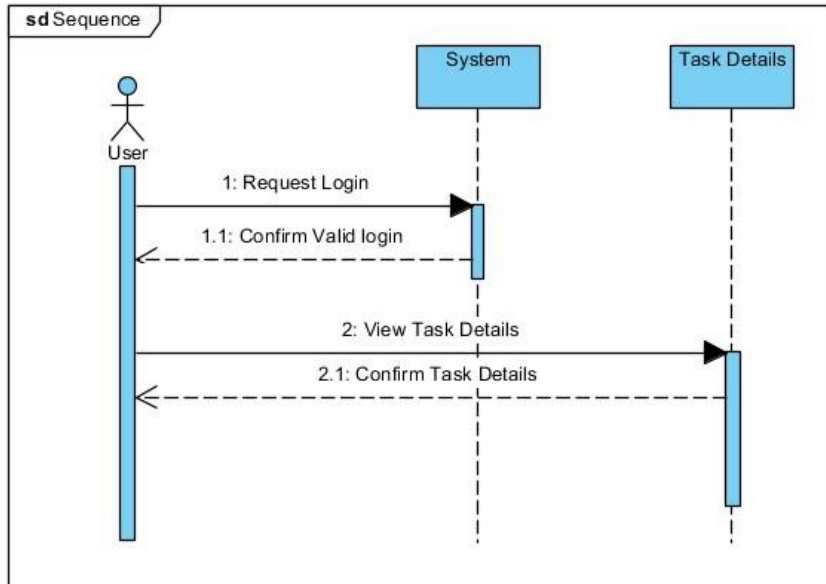


Figure 15: View Task Details

4.1.4. Sequence Diagram for View Employees

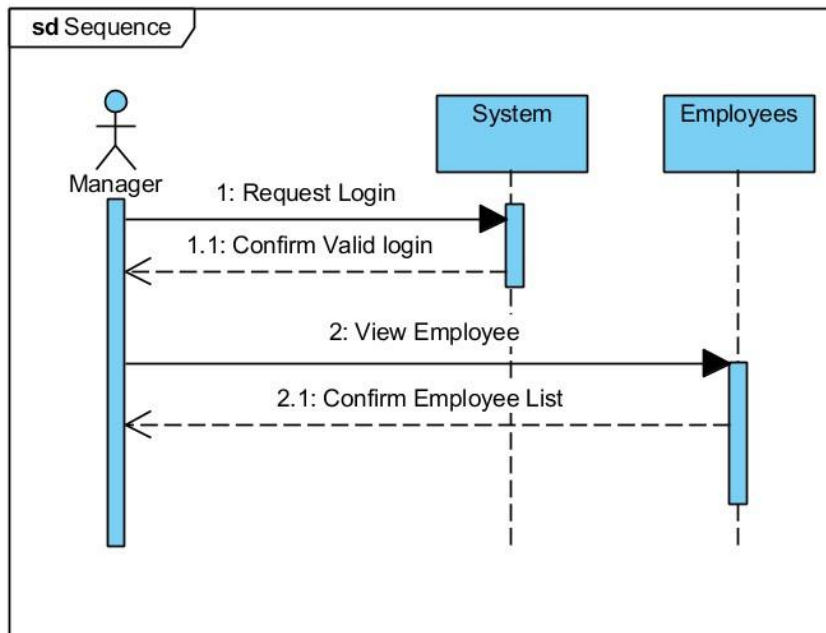


Figure 16: View Employee

4.1.5. Sequence Diagram for Delete Employees

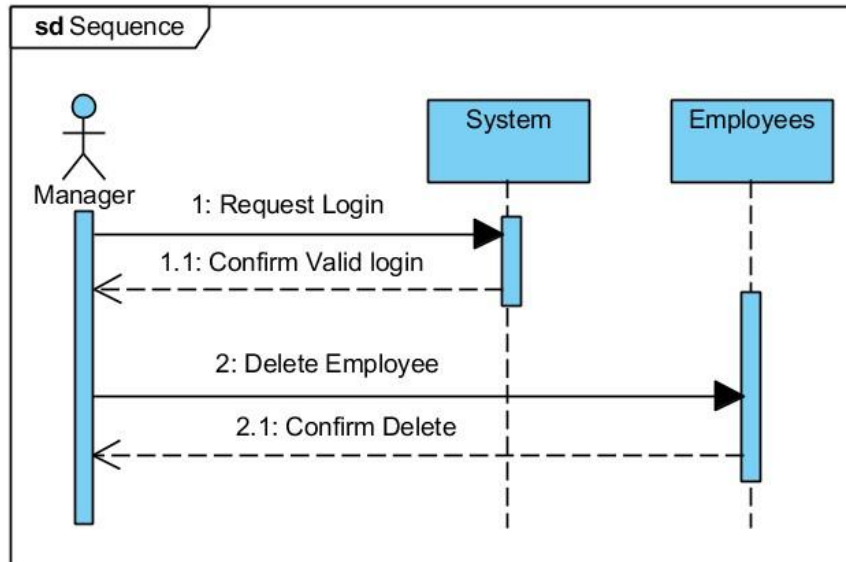


Figure 17: Delete Employee

4.1.6. Sequence Diagram for Assign Task

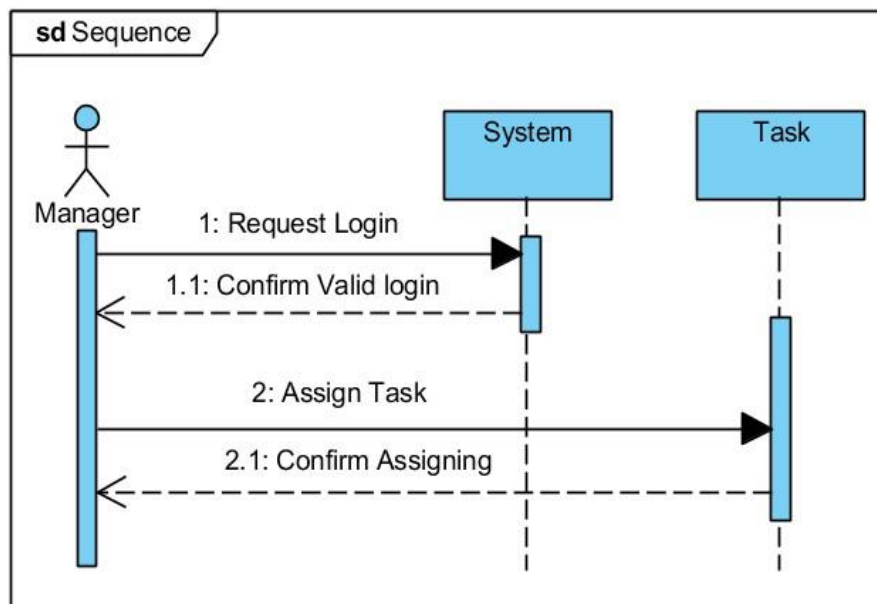


Figure 18: Assign Task

4.1.7. Sequence Diagram for Delete Task

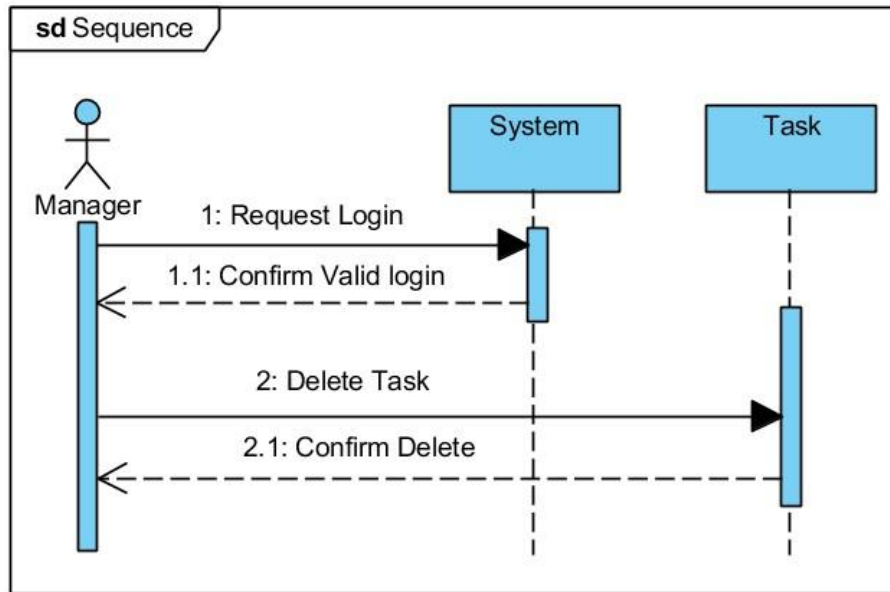


Figure 19: Delete Task

4.1.8. Sequence Diagram for Update Task

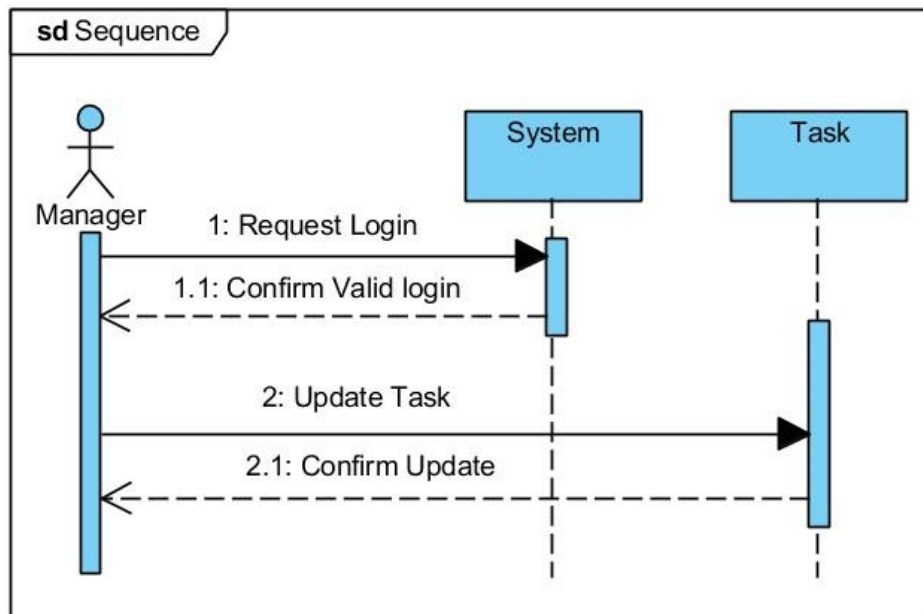


Figure 20: Update Task

4.1.9. Sequence Diagram for Update Task Status

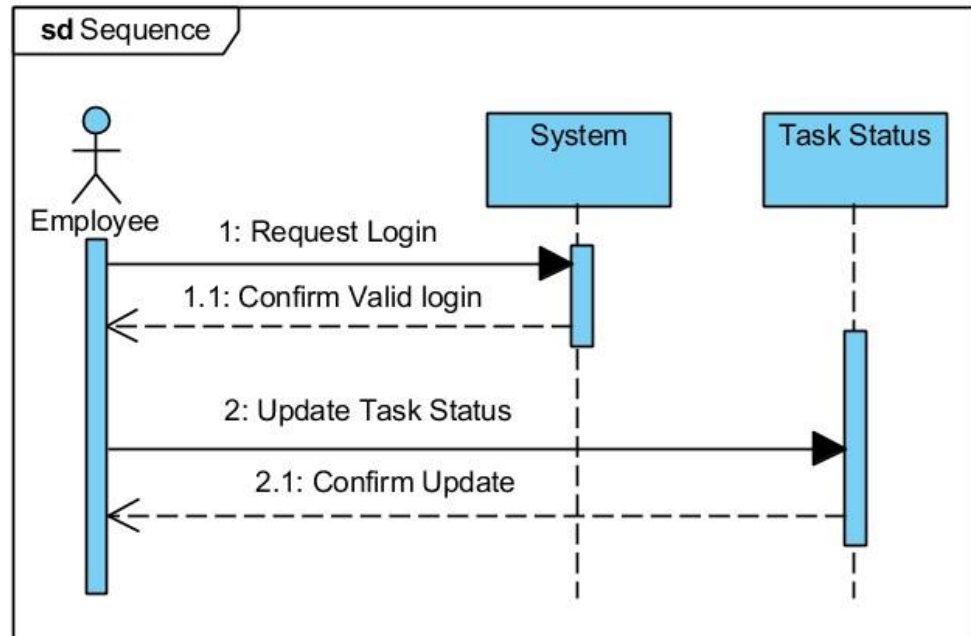


Figure 21: Update Task Status

4.2. Class Diagram

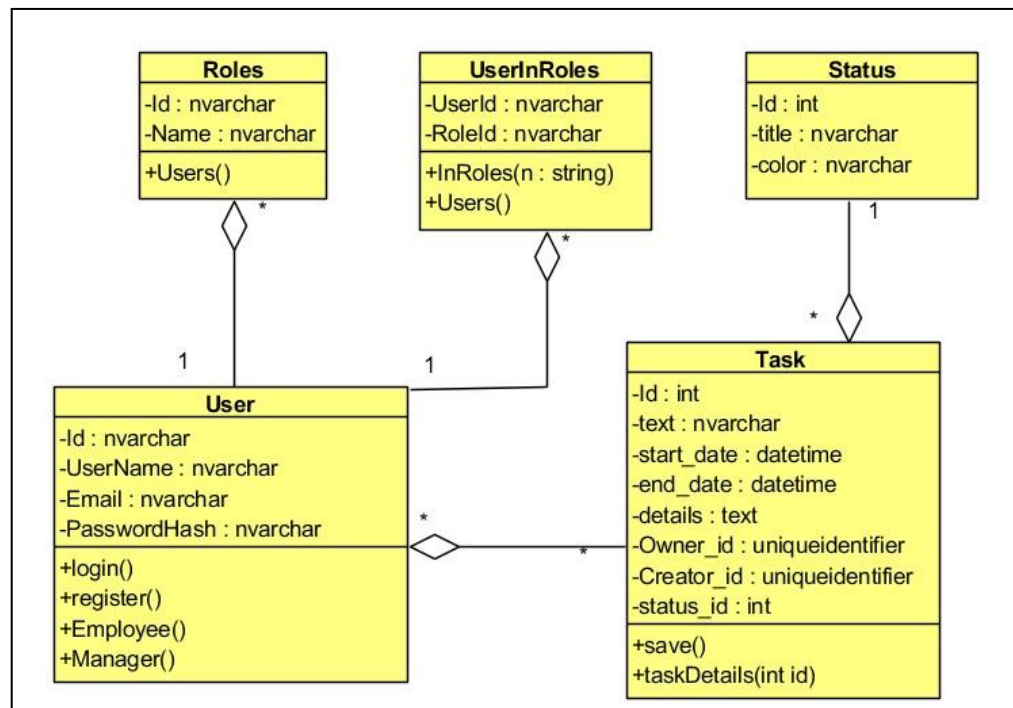


Figure 22: Class Diagram for the System

4.3. Entity Relationship diagram

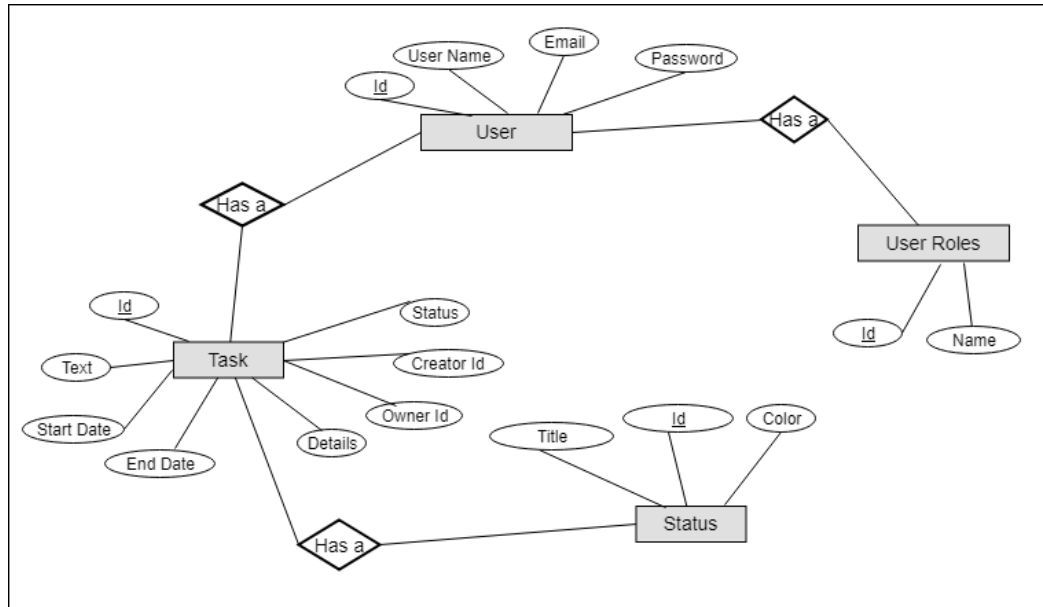


Figure 23: ER Diagram

4.4. Development Tools and Technology

4.4.1. User Interface Technology

- 4.4.1.1. Asp .Net MVC5
- 4.4.1.2. CSS
- 4.4.1.3. Java Script
- 4.4.1.4. Bootstrap

4.4.2. Implementation Tools and Platforms

- 4.4.2.1. Microsoft Visual Studio 2017
- 4.4.2.2. SQL Server 2012

Chapter 5

System Testing

5.1. Testing Features

5.1.1. Features to be tested

- 5.1.1.1. Registration
- 5.1.1.2. User Login
- 5.1.1.3. Assign task
- 5.1.1.4. Update Task

5.1.2. Features not to be tested

- 5.1.2.1. View Employees
- 5.1.2.2. View Tasks

5.2. Testing Strategies

5.2.1. Test Approach

1. The system will manually tested
2. The system testing is based on user acceptance

5.2.2. Pass/Fail Criteria

1. Component Pass/Fail criteria – The test will pass if the case meet the object design requirement or fail if not
2. Integration Pass/Fail criteria - The test will pass if the case meet the object design and the system architecture requirement or fail if not
3. System Pass/Fail criteria - The test will pass if the case meet the functional and non-functional requirements or fail if not

5.2.3. Suspension and Resumption

1. Build Acceptance Test – the system will pass the test if every build is successful if not than try build again.
2. Regression Testing – the system should work properly after each change on the system.

- System Design Changes - the system should work properly after each change in the design.

5.3. Testing Schedule

Table 11: Testing Schedule Table

| Test Phase | Time | Owner |
|---------------------------------------|-------------|--------------------|
| Test Plan Creation | 1 weeks | Minhaz Khan Shawon |
| Test Specification Creation | 2 weeks | Minhaz Khan Shawon |
| Test Specification Team Review | 2 weeks | Minhaz Khan Shawon |
| Component Testing | 3 weeks | Minhaz Khan Shawon |
| Integration Testing | 3 weeks | Minhaz Khan Shawon |
| System Testing | 3 weeks | Minhaz Khan Shawon |

5.4. Test Cases

5.4.1. Test Case Module-1: Registration

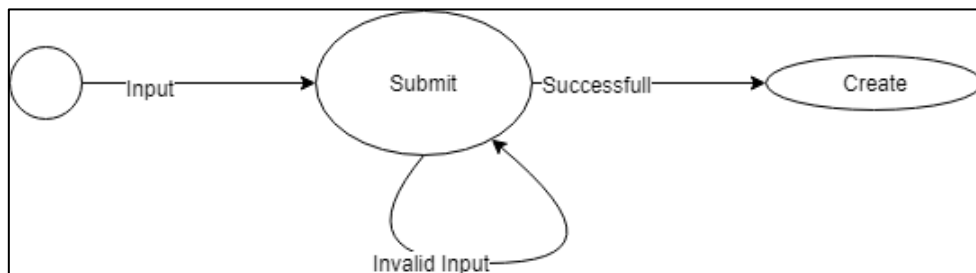


Figure 24: State Transition Diagram

Table 12: Test Case Table

| | |
|---|-------------------------------------|
| Test Case ID: TC1 | Test Design by: Minhaz Khan Shawon |
| Test Priority: High | Test Design Date: 07.10.2018 |
| Module Name: Registration | Test Execute by: Minhaz Khan Shawon |
| Description: Registration of a new employee | Test Execute Date: 07.10.2018 |

| Step | Test cases | Test data | Expected result | P/f | Actual result |
|------|--|-----------|---|------|---|
| 01 | Enter empty value | | Display Exception | Pass | Display Exception |
| 02 | Enter space between strings in user name field | A king | Don't take space between strings in user name field | Pass | Don't take space between strings in user name field |
| 03 | Enter password min 4 and max 6 characters long | 123456 | Display error message | Pass | Display error message |
| 04 | Enter duplicate User ID | | Display error message "User Already exist. | Pass | Display error message "User Already exist. |
| 05 | New user registration | | Redirected to the index page | Pass | Redirected to the index page |

5.4.2. Test Case Module-2: Login

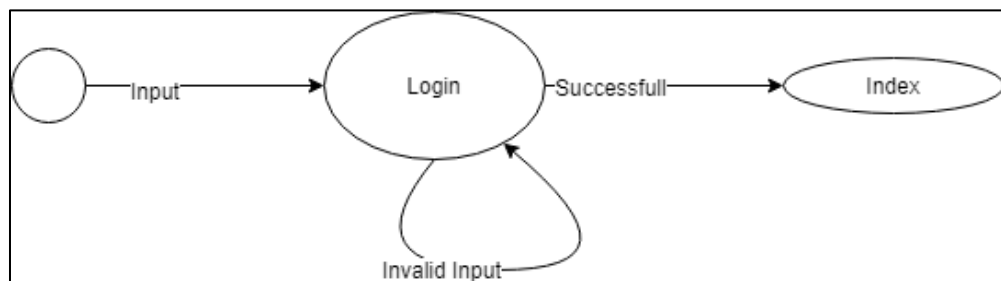


Figure 25: State Transition Diagram

Table 13: Test Case Table

| | |
|---|-------------------------------------|
| Test Case ID: TC2 | Test Design by: Minhaz Khan Shawon |
| Test Priority: High | Test Design Date: 09.10.2018 |
| Module Name: Login | Test Execute by: Minhaz Khan Shawon |
| Description: Test login process into the system | Test Execute Date: 09.10.2018 |

| Step | Test Cases | Test Data | Expected Result | P/F | Actual Result |
|------|--|------------------------|------------------------------|------|------------------------------|
| 01 | Enter empty value for user name and password | | Display Exception | Pass | Display Exception |
| 02 | Enter correct value for user name & password | User name and password | Accept | Pass | Accept |
| 03 | Enter wrong value for user name & password | User name and password | Display Exception | Pass | Display Exception |
| 04 | Click login button with correct input | | Redirected to the index page | Pass | Redirected to the index page |

5.4.3 Test Case Module-3: Assign Task

Table 14: Test Case Table

| | |
|---|-------------------------------------|
| Test Case ID: TC3 | Test Design by: Minhaz Khan Shawon |
| Test Priority: High | Test Design Date: 09.10.2018 |
| Module Name: Assign Task | Test Execute by: Minhaz Khan Shawon |
| Description: Test assign a task to employee process | Test Execute Date: 09.10.2018 |

| Step | Test Cases | Test Data | Expected Result | P/F | Actual Result |
|------|--|-----------------------|--|------|--|
| 01 | Click a employee | | Clicking a employee and directly Assign a task | Pass | Clicking a employee and directly Assign a task |
| 02 | Input task details and time to assign a task | Task details and time | Task Assigned | Pass | Task Assign |
| 03 | Delete a task | | Task deleted | Pass | Task delete |

5.4.4 Test Case Module-3: Assign Task

Table 15: Test Case Table

| | |
|---|-------------------------------------|
| Test Case ID: TC4 | Test Design by: Minhaz Khan Shawon |
| Test Priority: High | Test Design Date: 09.10.2018 |
| Module Name: Update Task | Test Execute by: Minhaz Khan Shawon |
| Description: Test update a task from employee process | Test Execute Date: 09.10.2018 |

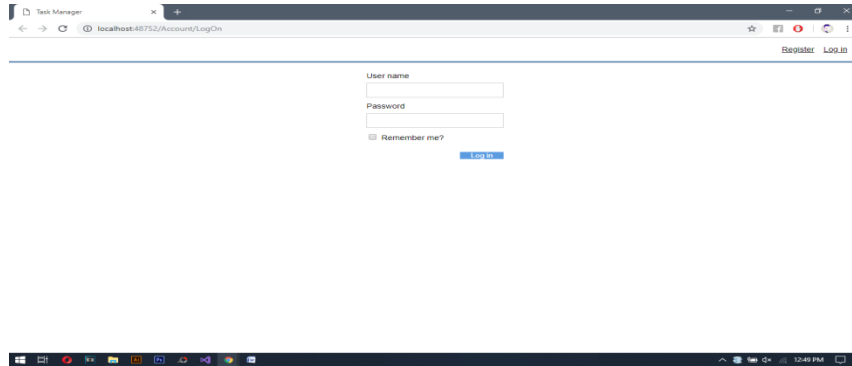
| Step | Test Cases | Test Data | Expected Result | P/F | Actual Result |
|------|------------------------|-----------|---------------------|------|--------------------|
| 01 | Click Task Details | | View task details | Pass | View task details |
| 02 | Update the task status | | Task status updated | Pass | Task status update |

Chapter 6

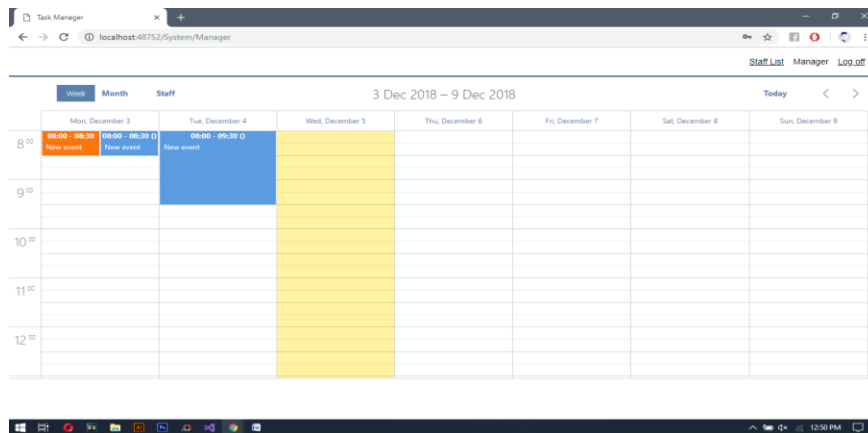
User Manual

6.1 User Manual (Manager)

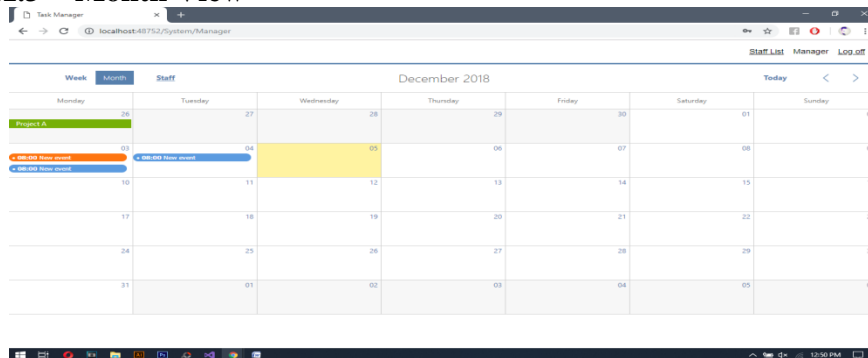
6.1.1 Login



6.1.2 Week View



6.1.3 Month View



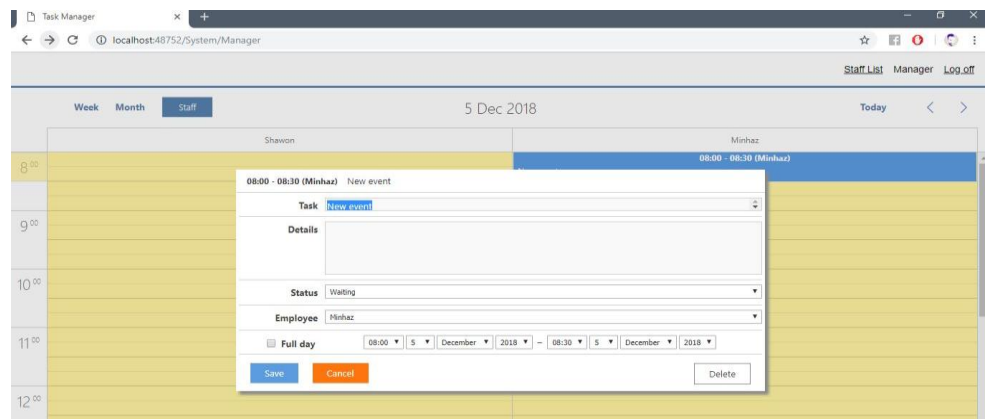
6.1.4 Employee List View



Staff List

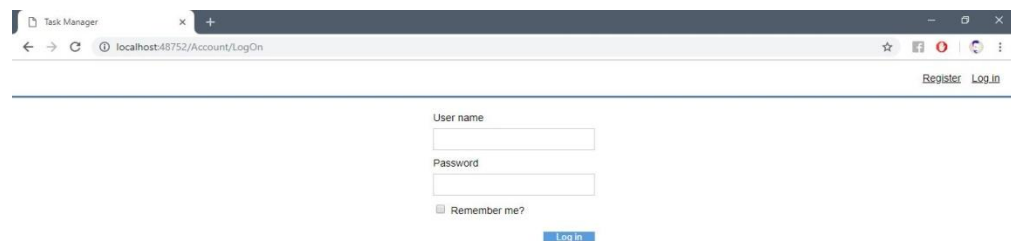
| Staff Name | Staff Email | |
|------------|------------------------------|------------------------|
| Shawon | minhaz.shawon.khan@gmail.com | Delete |
| Minhaz | minhaz@yahoo.com | Delete |

6.1.5 Assign Task

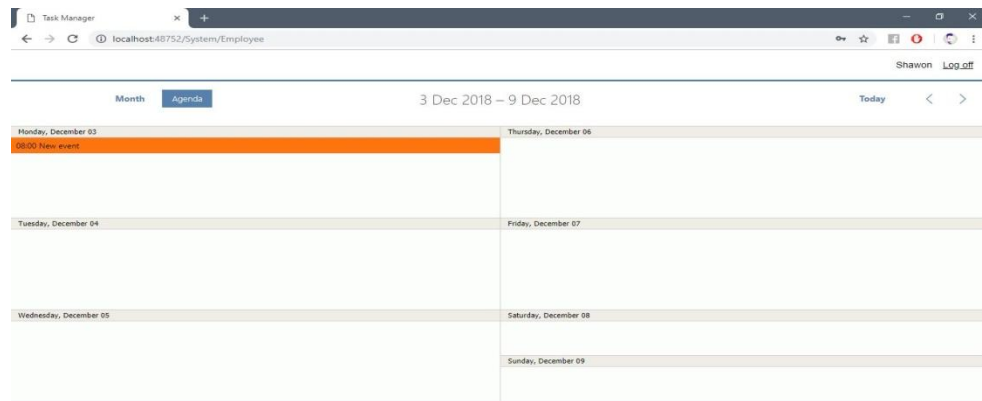


6.2 User Manual (Manager)

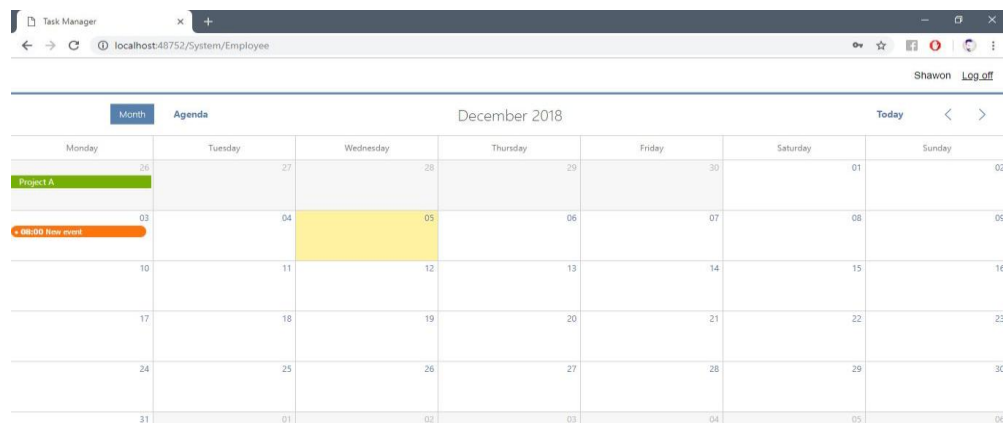
6.2.1 Login



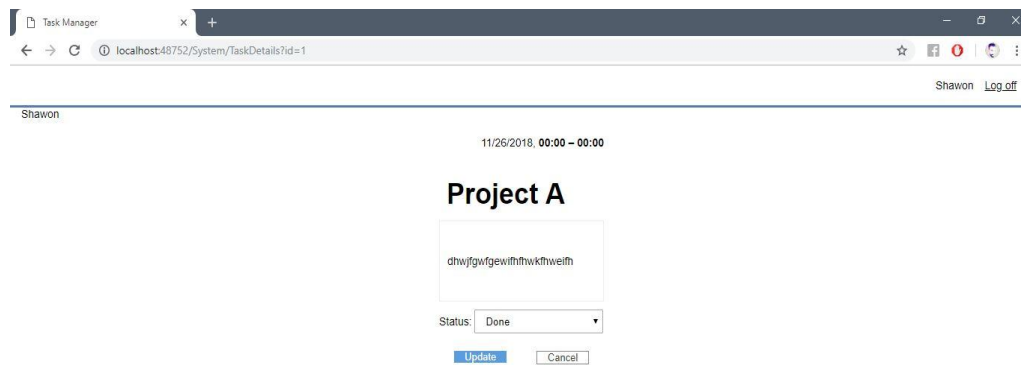
6.2.2 Agenda View



6.2.3 Month View



6.2.4 Update Task Details



Chapter 7

Project Summary

7.1 Repository Link

<https://github.com/Shawon007sky/taskMonitor>

7.2 Obstacles & Achievements

The .Net MVC framework is updating every day so it's quite tough to work with new technology. The library function of ASP .Net is very helpful though the implementation is hard and there was lots of error while developing this system.

7.3 Future Scope

This system is not huge as with simple frames for work with and easy to use and helpful. There was some features I wanted to implement but I was unable to implement them for now but in the future there are some ideas to make this project more helpful and unique is given below

1. Pie chart employee work progress ratio.
2. SWOT analysis of Task done by employee.
3. Bar chart of projects done so far and success rate

Conclusion

Though I have successfully implemented the system “Employee performance evaluation and task monitor system” but there also some restriction in my project. Now this web system is using “local host”. In near future domain should be taken and launch this web application.

Appendices

May include any supporting material which is not essential for the main body of the report

These could be:

- Questionnaire designed for use
- Completed questionnaires received
- Details of requirements
- User evaluation of the system I developed
- User manual/guide
- Test plans and results
- Project plans
- Tables of contents
- Diagrams

References

- Rachel Burger,(2016, September 12th). Blog post. Retrieve from <https://blog.capterra.com/free-task-management-software>
- Blake Morrison.(2013 May 3rd).Blog post. Retrieve from <https://blogs.technet.microsoft.com/askperf/2013/05/03/finally-a-windows-task-manager-performance-tab-blog>
- Sayedur Rahman.(2009 May 20th). Blog post. Retrieve from <https://www.codeproject.com/Articles/36511/Task-Management-System>