**Name: Dilpreet**

**ID: 3156915**

**Title: Software Requirement System**

**Task 1 - Identify the problem**

**Call Discussion with Client: Leo**

**Information of the Client:**  I am dilpreet singh. I am Software engineer. I am going to write the call discussion of my client Leo. Leo is my client. He is running his IT Company. So he needs the Software where he can manage the all activities done by his employees. So I am going to describe the call discussion between both of us as below:

**Primary objective of the project:** He needs the software where Leo Can manage the all activities and project costs and project details. All Information of his different 2 projects he needs to save for the future in secure way. So his main problem is that his company is growing day by day so he needs the software where he can store all the activities going in his different 2 softwares. Because before he has less work so he manages the everything manually. But now it is becoming difficult to manage everything so he needs a software. Now I am going to provide him a solution. So I am going to create the Software which name is “Software Requirement System”.

**Task 2 - Define and document requirements**

Requirement of The Software

Scope of Work

**Features:** Leo needs to streamline his process of sending out contracts to other companies, while signing the requirements of the different software that are required by the different companies.

This process needs to be accurate and should be smooth and efficient as this will decide the end result of the software. Any defect in the software can lead to disagreement between the two companies hence lingering the process of development of the software.

**Functional Requirements**: Leo has got in hand the name of all the employees of his company. The software should be able to tell which employee will be best suitable for which project. All the contracts within all the companies are to be stored in the software. The record of which employees are working on which project and for which company is available in the software.

Also how much time and effort is put by the employee in the designated project is also recorded in the software.

**Non-functional requirements:** As all the agreements between the companies are stored in the software; proper authentication should be done in the software. Also the companies should be allowed to have access to their agreement within the software. There should be proper checks on the employee's appointed for the particular project with the company in order to avoid any leaks of internal data or information.

**Time:** It will take minimum 20 days to complete.

|  |  |
| --- | --- |
| Study | 04 |
| Requirement Gathering | 04 |
| Designing | 03 |
| Development | 6 |
| Testing and Implementation | 3 |

The 4 essential steps of the Risk Management Process are:

1. Identify the risk.
2. Assess the risk.
3. Treat the risk.
4. Monitor and Report on the risk.

**Cost**: The cost of the project is finalised $750 based on these different-2 modules:

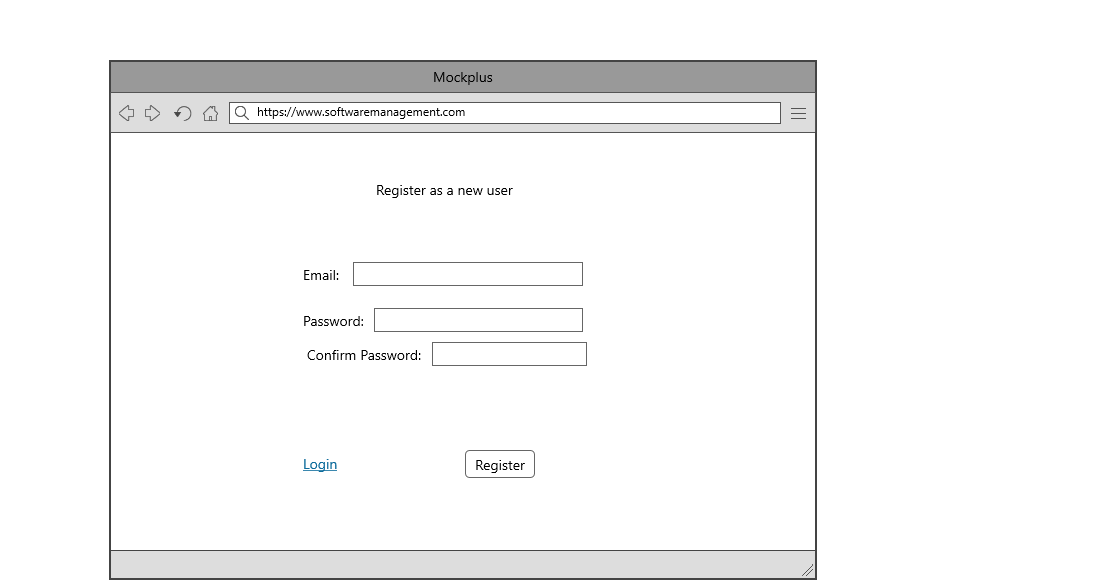
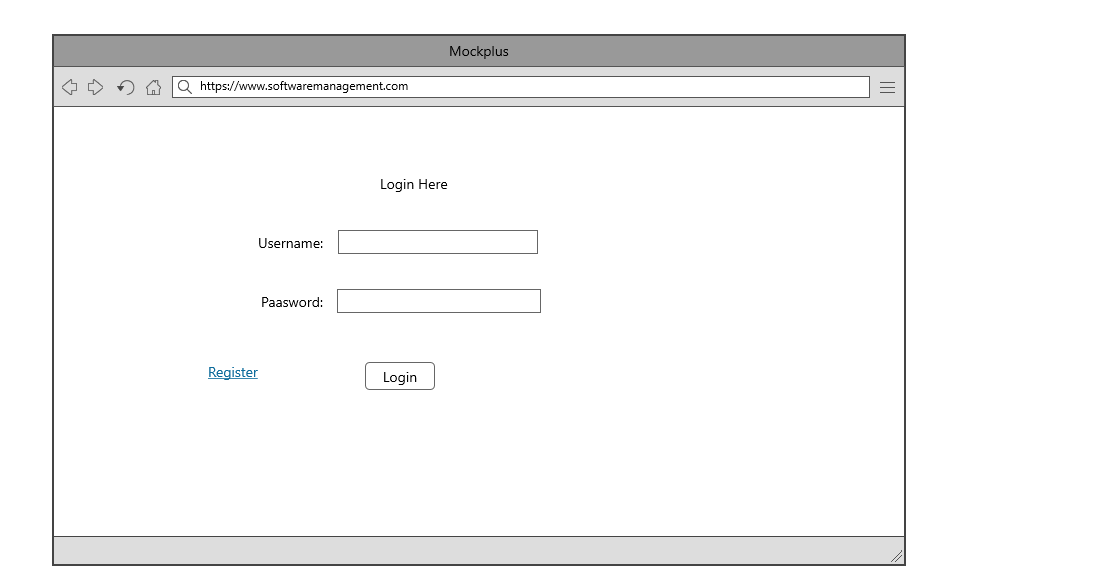
|  |  |
| --- | --- |
| Study | $100 |
| Requirement Gathering | $50 |
| Designing | $200 |
| Development | $300 |
| Testing and Implementation | $100 |

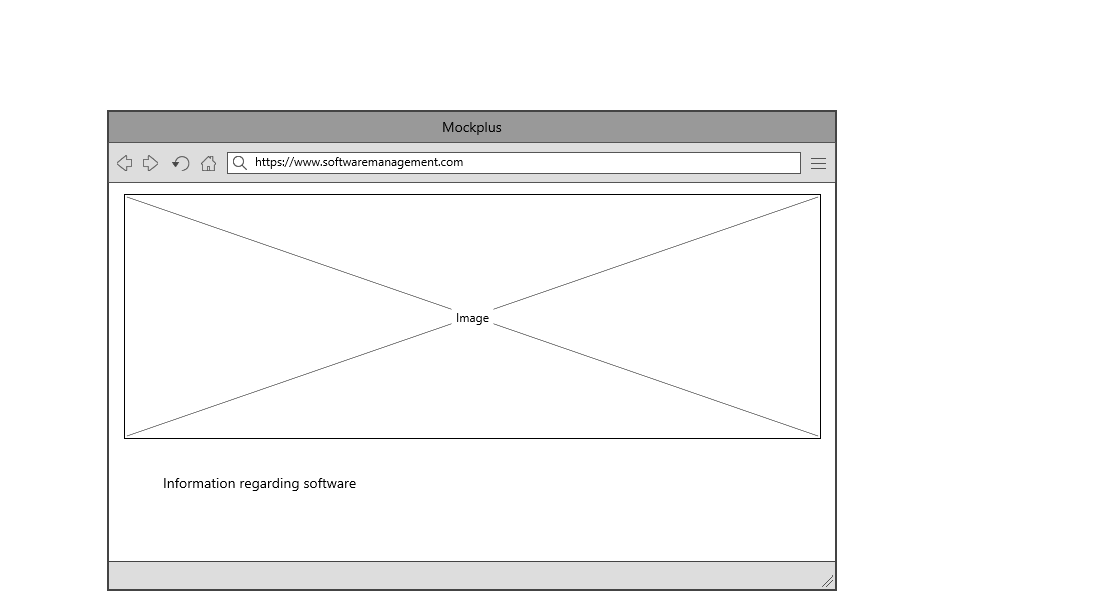
**Project Management:** project management has always been practiced informally, but it began to emerge as a distinct profession in the mid-20th century when a group of forward-thinking individuals from the aerospace, engineering, pharmaceutical, and telecommunications fields realized a changing world needed new tools.

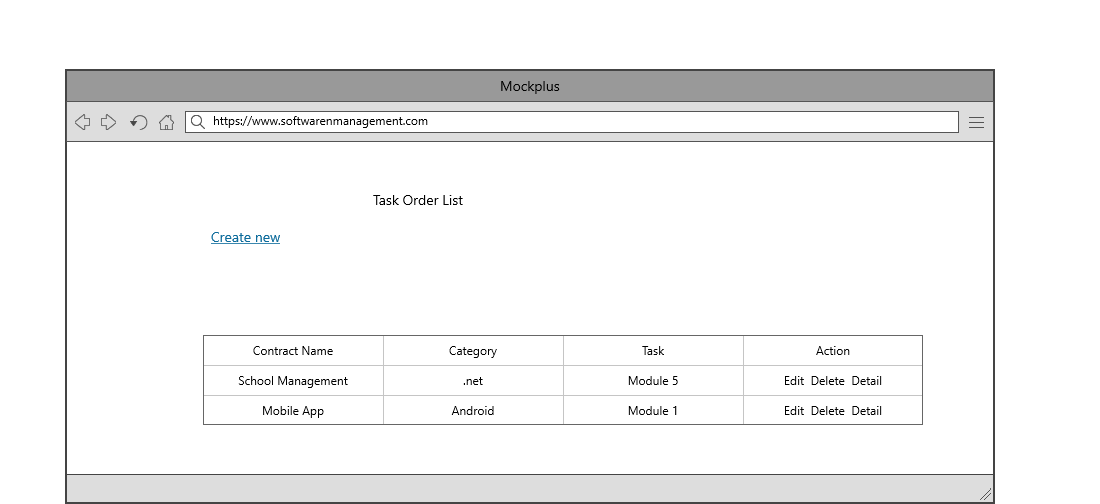
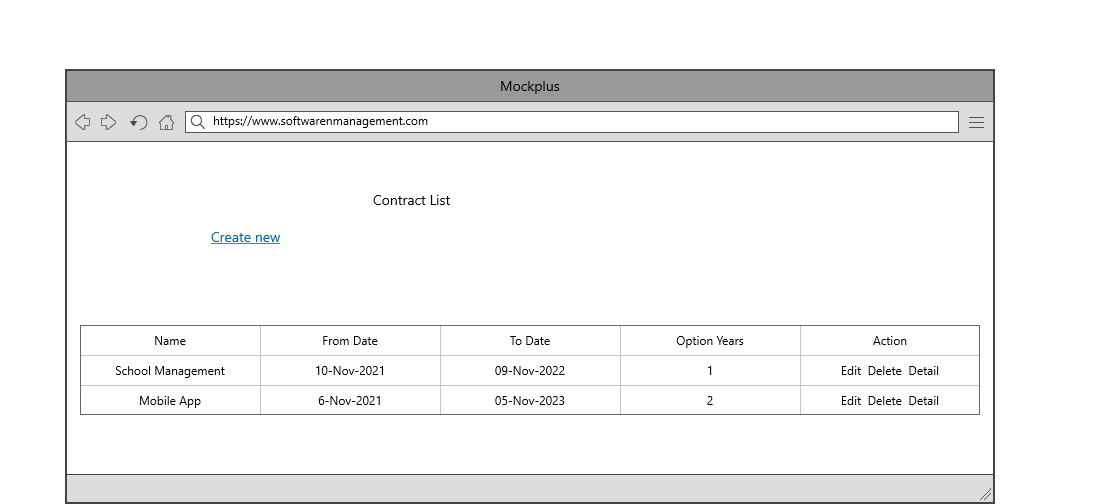
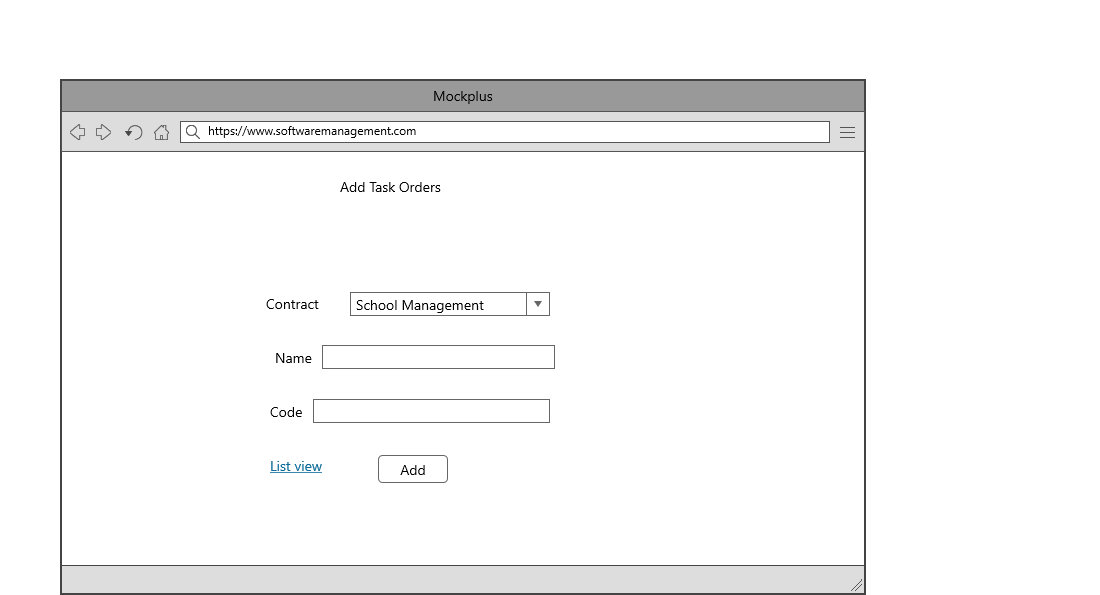
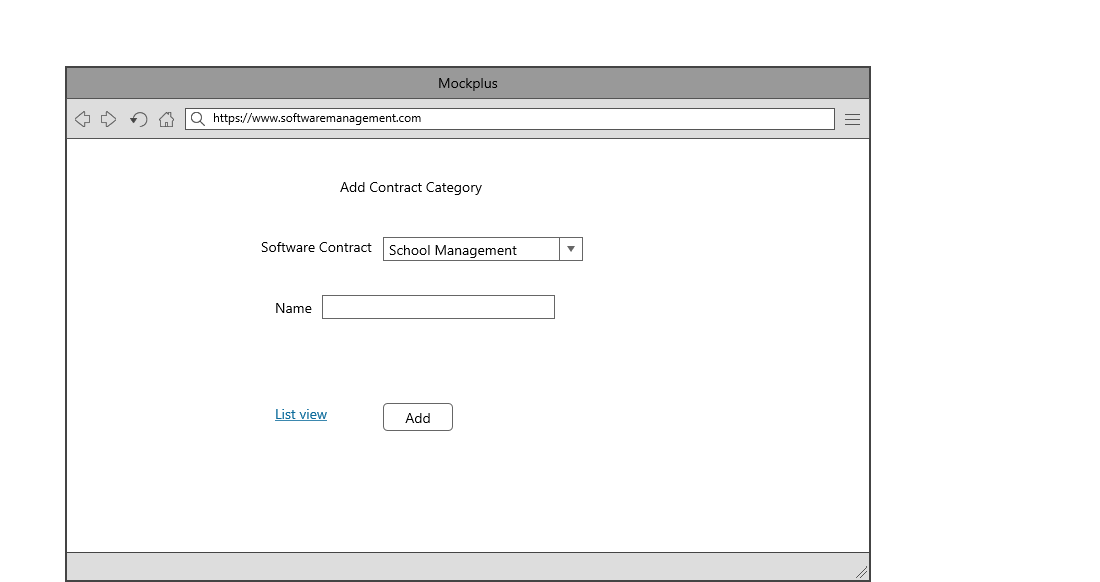
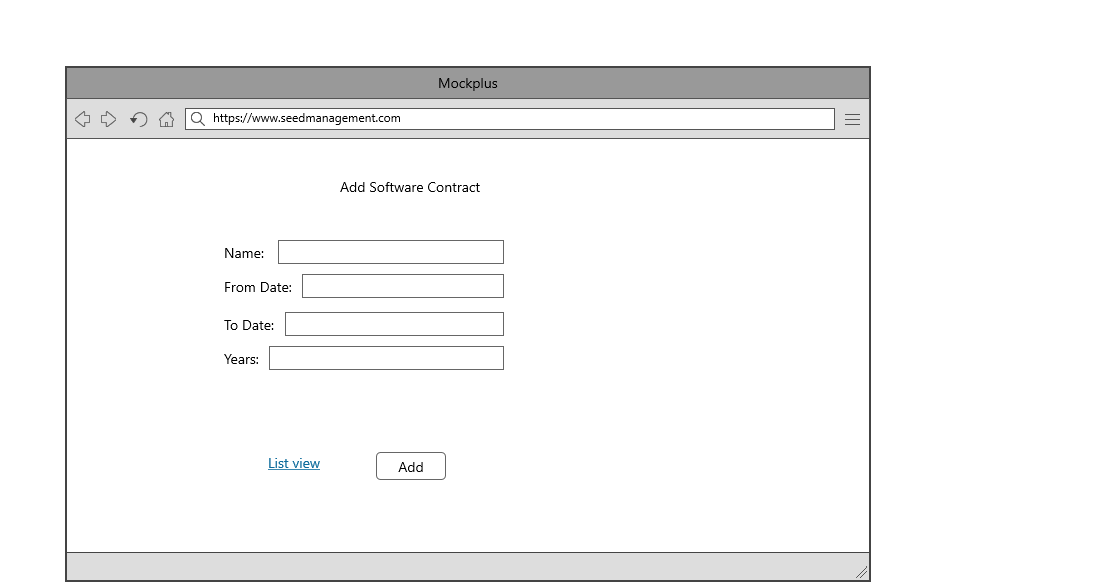
**Gantt Chart:**



**Task 3 - Design mockups**







**Colour Scheme: Blue, White and black.**

## Task 5- usability testing

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **User #** | **Login form** | **Contract form** | **Task Order Module** | **Pass / Fail / Not executed / Suspended** | **Reviews** |
| Leo | completed as expected | This module helps me to save the whole contracts | Task order is very helpful for save the records of Tasks orderwise. | Pass | Excellent work |
| Gurjinder | This is very secure for out application | Whole contracts of our company we can solve here. | should some changes and expand more | Pass | All modules are marvellous |
| Satbir | It provides the security. | This module is working as expected. | This is very beneficial | Pass | all modules are as expected |

**Task 6 - Meet with your client**

Client Meeting:

|  |
| --- |
| Meeting Details |
| * Date and time: 25-Oct-2021 * Location: Newzealand |
| Attendees: Leo and Diljit |
| Agenda: Discussion of Software of Software management system |
| Discussion (Important Points): He wants neat and clean software which will work effectively |
| My To Dos (Actions): Firstly I have to make the mockups of the application. Then Starting the application after the next meeting. |
| Questions requiring Follow- Up: Discussion of the mock ups |
| Comments: Leo is good person and he described regarding software very wisely. |
| Next meeting  Date and Time: 5- Nov-2021 1:00 Pm  Location: Newzealand  Agenda: Showing the mock ups to the client and discussion about further development. |

**Appendix 3**

**Client Review Form**

My developer’s name: Dilpreet Singh

This form is intended to let you review the communication skills of your developer for this assignment. Your review will partly count towards their final mark. Do not take into account technical skills.

# Grading scale

You must grade your developer for each item listed in the tables below. 1 being the lowest, 5 the highest.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** |
| Strongly disagree | Disagree | Ok | Agree | Strongly agree |

# Review your developer

|  |  |  |
| --- | --- | --- |
| **Item** | **Grade** | **Comment** |
| Communicated clearly and effectively | 5 |  |
| Kept you informed of the progress | 4 |  |
| Met timelines | 3 |  |
| Responded promptly to problems | 2 |  |
| Met overall project objectives | 5 |  |
| Was open to new ideas and suggestions | 3 |  |
| Was easy to work with | 3 |  |

Comments

Provide any extra comments on your developer’s communication skills and professionalism.

Dilpreet is good person and he has good knowledge of coding.

## Signed by Client

|  |  |
| --- | --- |
| **Signature: Leo Sharma** | **Date: 15-nov-2021** |
| **Name: Leo Sharma** | **Title:Software Mangement System.** |
| **Contact details (email/Tel):** | |

**Task 7- Presentation**

<video1854046151.mp4>

**Task 8 - Software development life cycle stages**

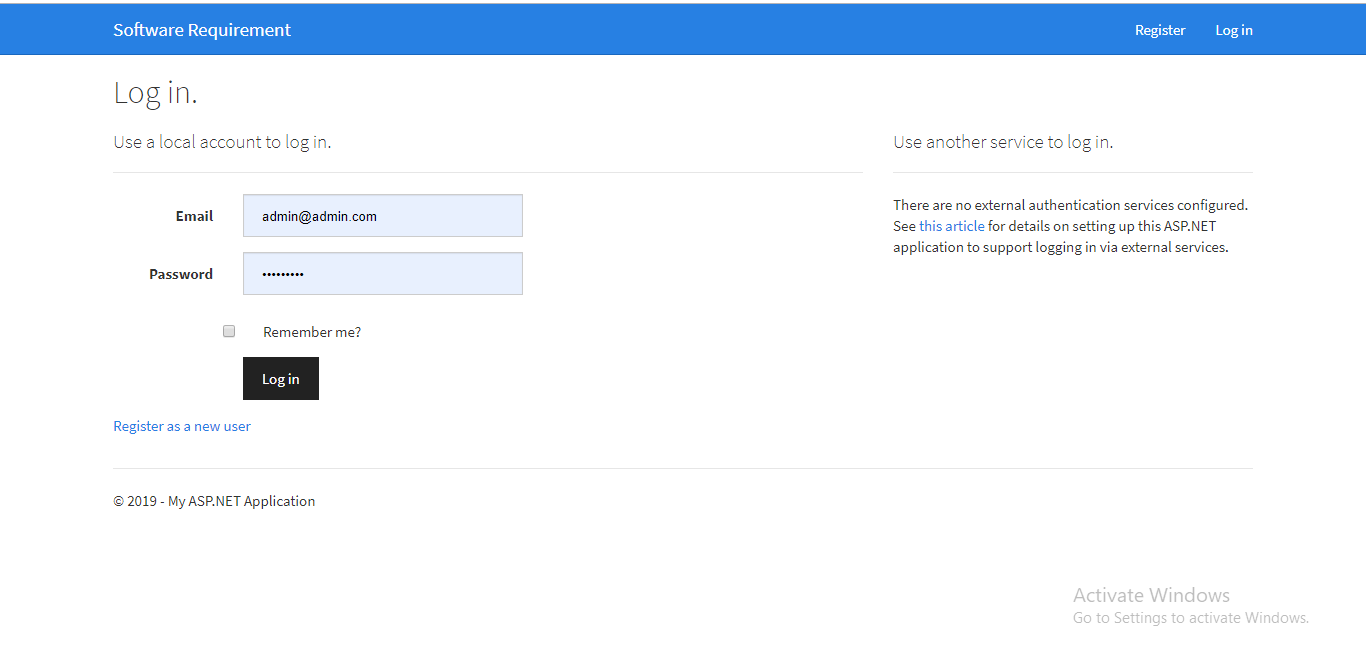
**Planning :-** The first stage of SDLC is all about “What do we want?” Project planning is a vital role in the software delivery lifecycle since this is the part where the team estimates the cost and defines the requirements of the new software.

**Requirement :-** The second step of SDLC is gathering maximum information from the client requirements for the product. Discuss each detail and specification of the product with the customer. The development team will then analyze the requirements keeping the design and code of the software in mind. Further, investigating the validity and possibility of incorporating these requirements into the software system. The main goal of this stage is that everyone understands even the minute detail of the requirement. Hardware, operating systems, programming, and security are to name the few requirements.

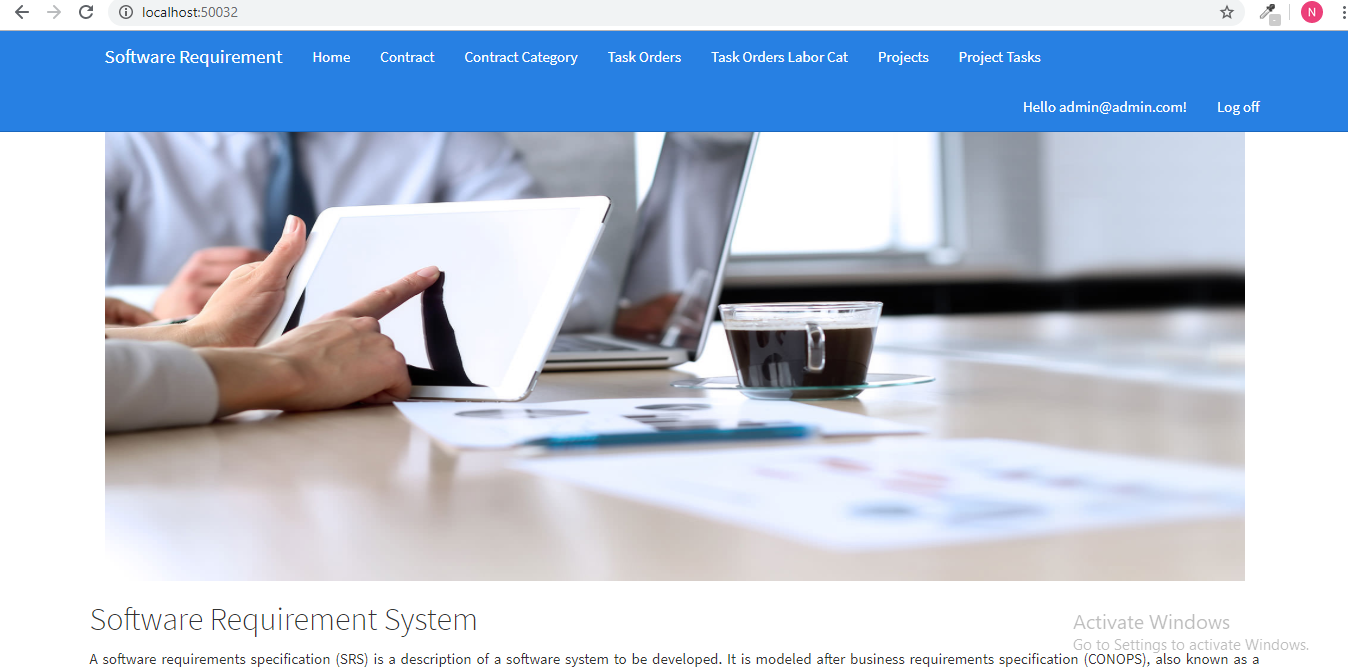
**Software Design and prototyping :-** In the design phase (3rd step of SDLC), the program developer scrutinizes whether the prepared software suffices all the requirements of the end-user. Additionally, if the project is feasible for the customer technologically, practically, and financially. Once the developer decides on the best design approach, he then selects the program languages like Oracle, Java, etc., that will suit the software.

**Screenshots**

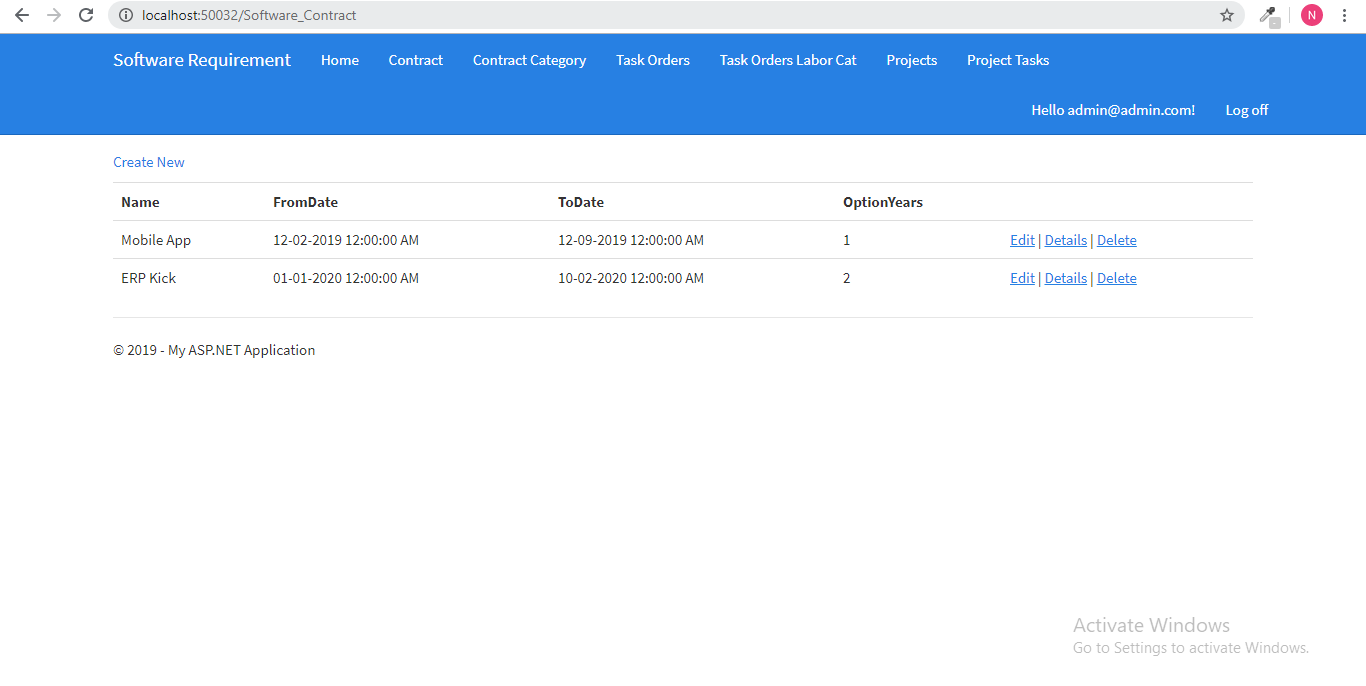
Login Page



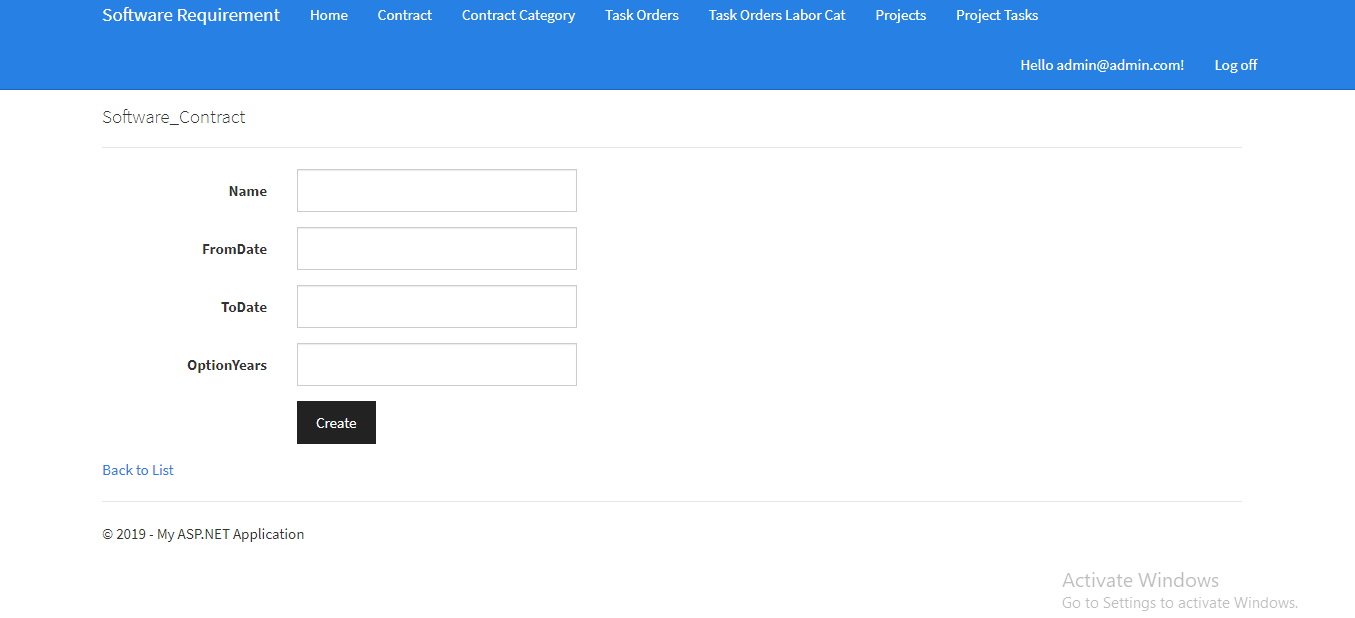
Dashboard Landing Page



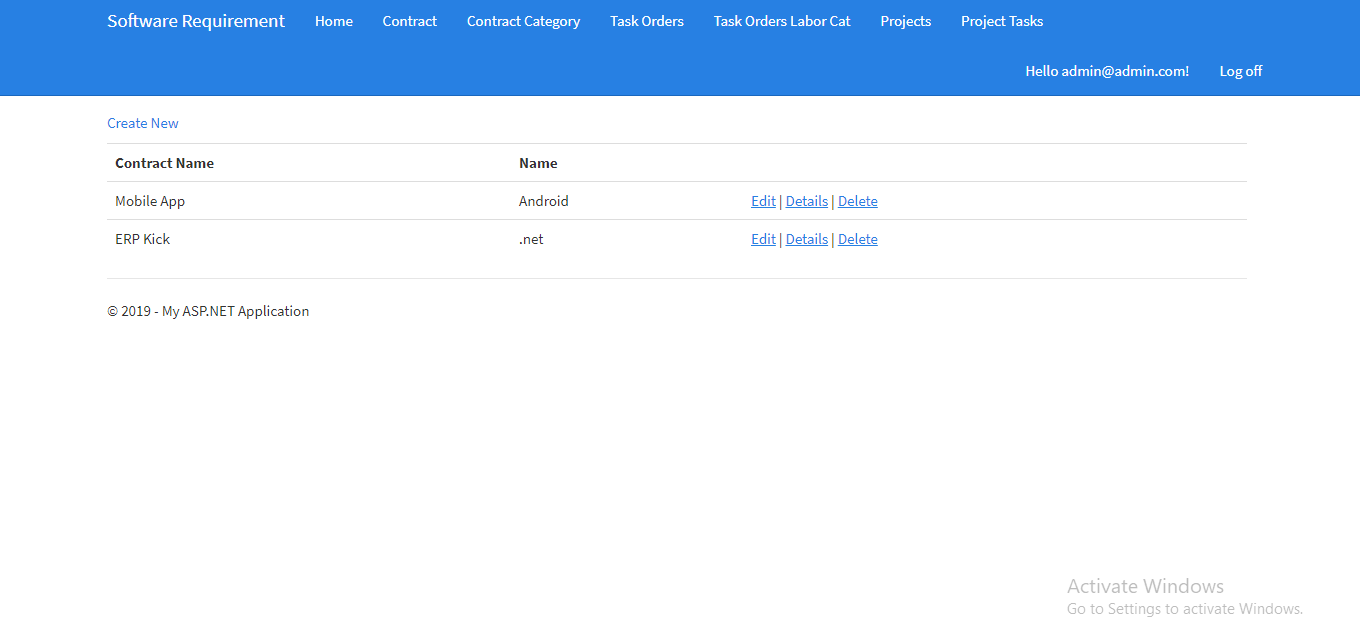
Contracts List

****

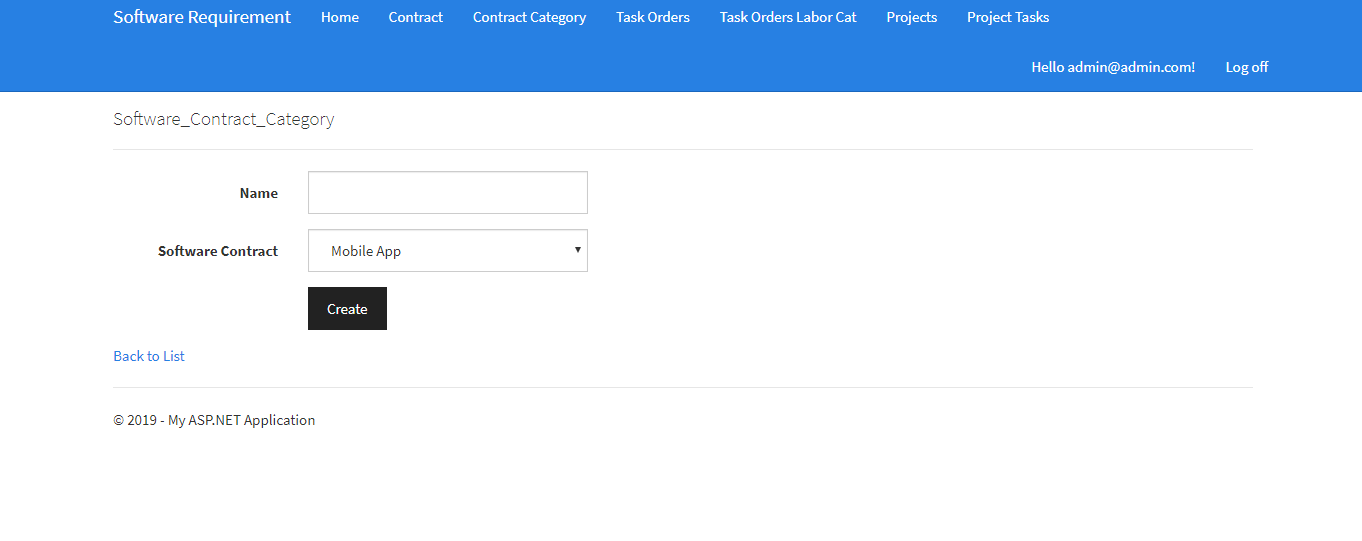
Create Contract



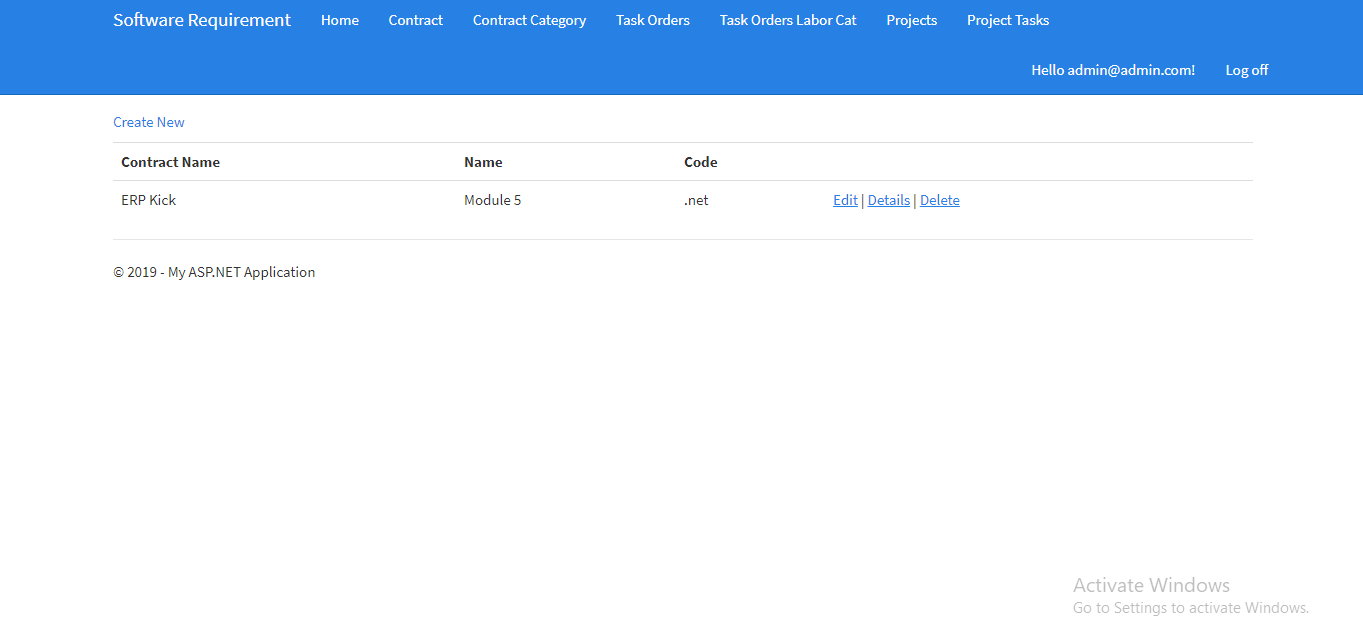
Contract Category



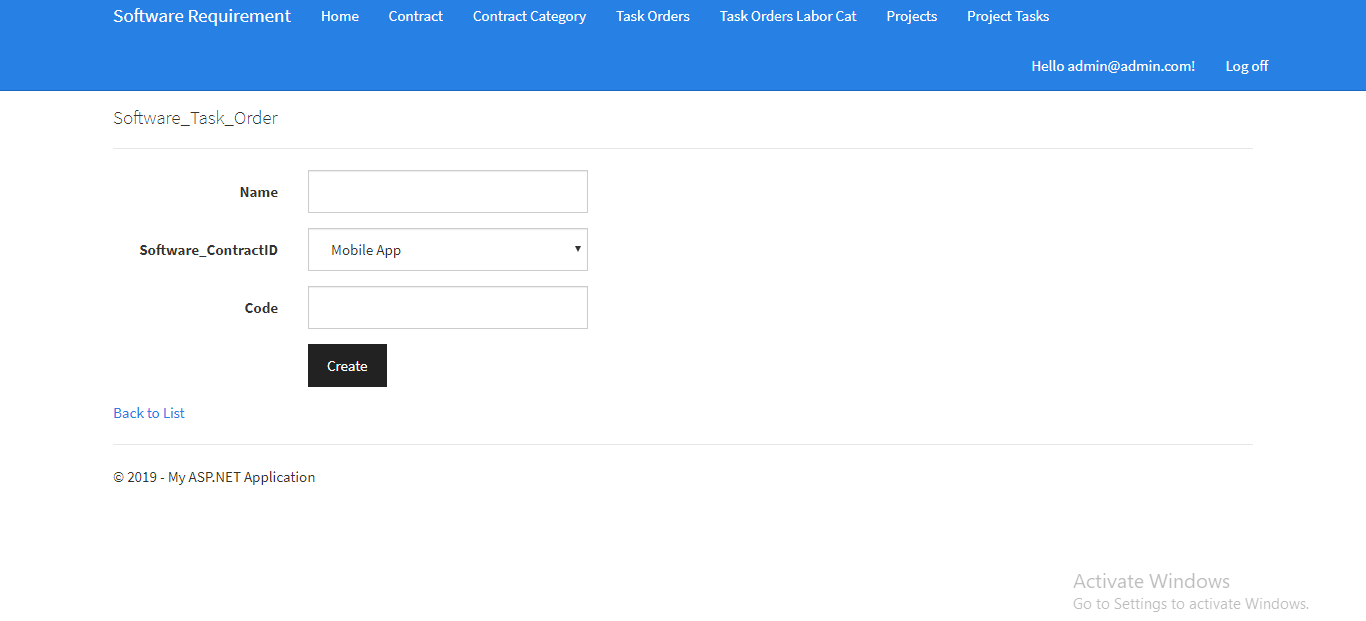
Create Contract Category



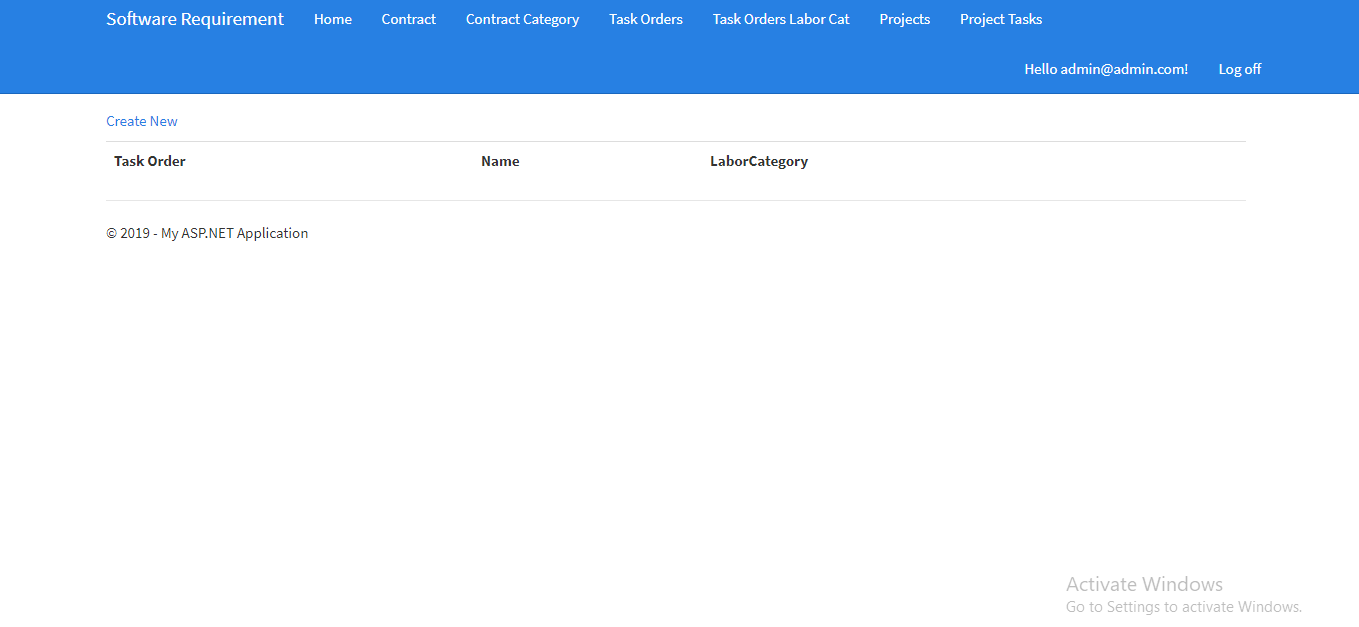
Task Order List



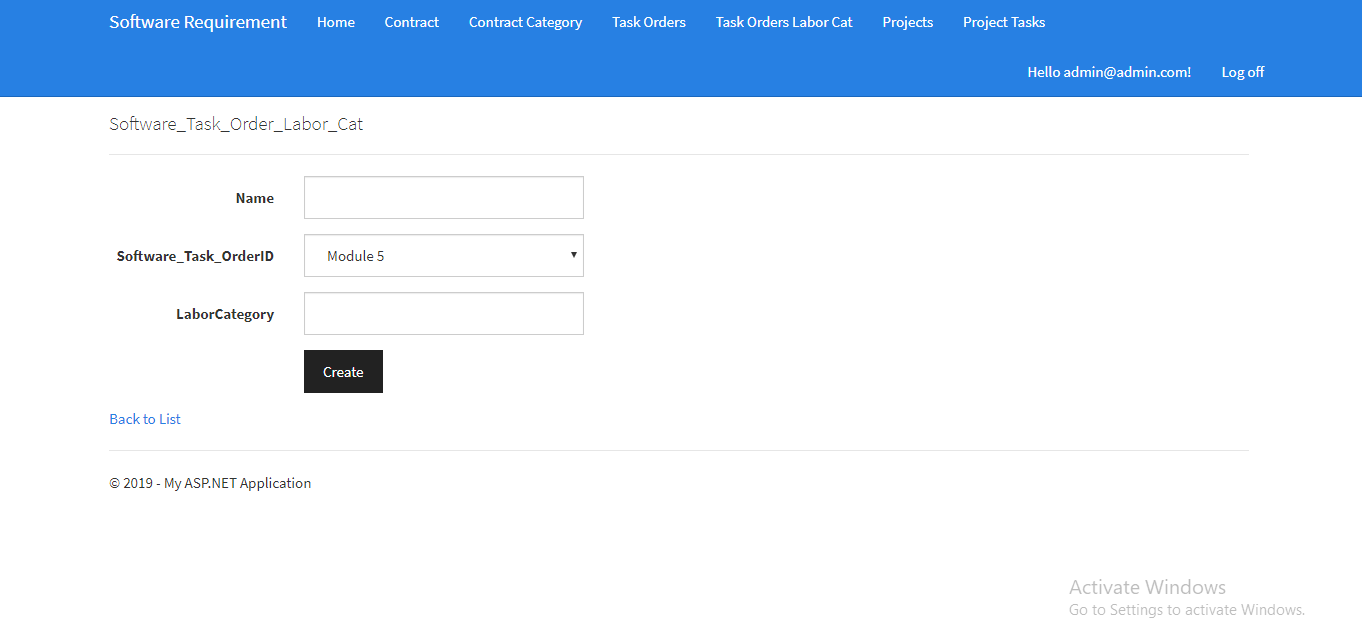
Create Task Order



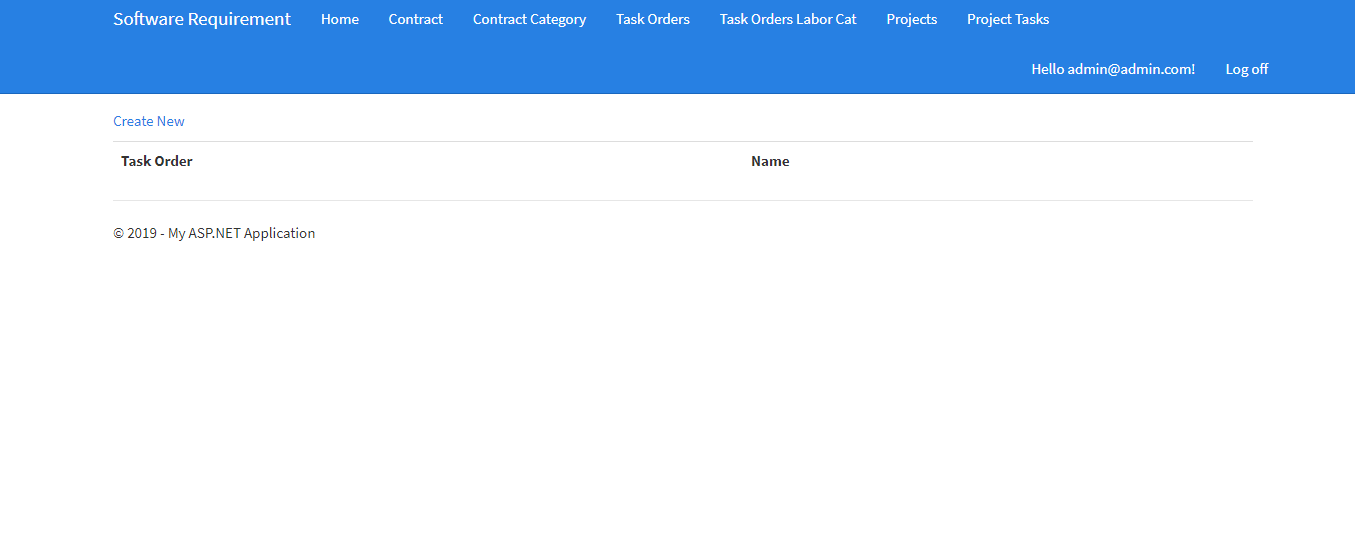
Labor Category Screen List



Add Labor Category



Project



**Software Development:** Time to code! It means translating the design to a computer-legible language. In this fourth stage of SDLC, the tasks are divided into modules or units and assigned to various developers. The developers will then start building the entire system by writing code using the programming languages they chose. This stage is considered to be one of the longest in SDLC. The developers need certain predefined coding guidelines, and programming tools like interpreters, compilers, debugger to implement the code.

**Testing:** Once the developers build the software, then it is deployed in the testing environment. Then the testing team tests the functionality of the entire system. In this fifth phase of SDLC, the testing is done to ensure that the entire application works according to the customer requirements.

After testing, the QA and testing team might find some bugs or defects and communicate the same with the developers. The development team then fixes the bugs and send it to QA for a re-test. This process goes on until the software is stable, bug-free and working according to the business requirements of that system.

**Task 9- Project management**

In a project management guide, if you are somehow in a position where you are expected to manage projects for your organization and are feeling overwhelmed, it’s better to start learning the basic stages of the project life cycle phases.

The 5 basic phases which we implemented in our project management process are:

1. Project Initiation
2. Project Planning
3. Project Execution
4. Project Monitoring and Controlling
5. Project Closing

**Project initiation**

The project initiation phase is the first stage of turning an abstract idea into a meaningful goal. In this stage, you need to develop a business case and define the project on a broad level. In order to do that, you have to determine the need for the project and create a project charter.

**Project planning**

The project planning stage requires complete diligence as it lays out the project’s roadmap. Unless you are using a modern project management methodology like agile project management, the second phase of project management is expected to take almost half of the entire project’s timespan.

**Project execution**

The project execution stage is where your team does the actual work. As a project manager, your job is to establish efficient workflows and carefully monitor the progress of your team.

**Project monitoring and controlling**

In the project management process, the third and fourth phases are not sequential in nature. The project monitoring and controlling phase run simultaneously with project execution, thereby ensuring that objectives and project deliverables are met.

**Project closing**

This is the final phase of the project management process. The project closure stage indicates the end of the project after the final delivery. There are times when external talent is hired specifically for the project on contract. Terminating these contracts and completing the necessary paperwork is also the responsibility of the project manager.