Introduction:

Welcome to the Software Requirements Specification(SRS) for TimeWise, a time and productivity management tool. This document highlights the functionalities and requirements of the tool. This document will firstly begin by addressing the inception and elicitation report of TimeWise.Then it will address different modelings like scenario based modelings, database modeling, class based modeling , behavioral modeling . Then finally this document will address the data flow diagram.

Purpose:

The main purpose of TimeWise is to help users manage their time and tasks in a proper way to become more productive. In this era of social media distractions a tool that organizes daily tasks with proper timings and deadlines along with time to time remainders this tool can lessen procrastination and can make daily activities more manageable.

Intended Audience:

All the reports,modeling and diagrams used in this diagram can give a prosper and clear idea about our tool which can be helpful for software developers,stakeholders,system architects, project managers, quality assurance professionals,end users as well as someone who is interested about the functioning of TimeWise.

Conclusion:

In conclusion we the creators of the tool Abdus Salam Islam Badhon ([bsse1401@iit.du.ac.bd](mailto:bsse1401@iit.du.ac.bd)) and Md Nahidur Rahman Nahid ([bsse1429@iit.du.ac.bd](mailto:bsse1429@iit.du.ac.bd)) believe that this SRS will help the intended audience to get the clear understanding of our tool. And we are also grateful to our supervisor Mridha Md Nafis Fuad([fuad@iit.du.ac.bd](mailto:fuad@iit.du.ac.bd)) sir for guiding us regarding the project.

1. Inception Report:

1.1 Project Overview and Objectives

TimeWise is a productivity tool that helps users to manage their daily activities. For now we are only concerned with making a web app to provide the service. Later we may consider other kinds of services like mobile apps ,desktop apps or for some other platforms. And out site is for now totally free to use so this document will not address any payment related specifications.TimeWise will have different features like listing daily activities in a to-do format, tracking progress and performance, getting time to time reminders and notifications, seeing relevant statistics of the participations,getting personalized feedback and tips and managing productivity in a collaborative and competitive environment.

1.2 Stakeholders

TimeWise is a tool which can be useful for anyone trying to organize their task and time. It is not created based on a particular group of people like students, working professionals,employees,managers and so on. It can be useful for all of the categories of people. So in the rest of the documents we will address all of these categories of people simply as users.Along with these stakeholders there will be admins who will manage the tool and users activities.SO the stakeholders are the followings:

1.Users

1.1 Students

1.2 Teachers

1.3 Working Professionals

1.4 Employees

1.5 Managers

1.6 Others

2. Admins

1.3 Methodology and Requirements Collection Plan

To collect requirements we will talk to the stakeholders personally and will collect their personal experience and recommendations regarding managing their daily activities. We may also collect information from a vast amount of stakeholders by some online means. We will also refer to research papers, reports,relevant books for collecting information about productivity related contents. We will take notes about our findings and will refer to these in developing and planning the system.

1.4 Assumptions and Risk

We will assume that the user will behave in a fair way like giving the actual input. If they dont the outcomes and results that our system will show will be biased and will be not beneficial for the users. Our current system will not address any dedicated efforts to stop cheating of the user. Maybe in the later versions we may consider these issues. So we expect the user to be fair for their own benefits.

1.5. Timeline and Strategy

In the beginning phase we will be collecting requirements and relevant information and make proper documentation of the findings. Then the UI/UX planning and actual development will be done. Followed by testing and bug fixing. Finally we will deploy the tools and will provide user documentation for better user experience. We will follow the iterative process model to develop the actual system. Where after each iteration we will perform the required changes. And we may develop independent part parallel so that integration of different modules becomes easy.

2. Elicitation Report:

2.1 Quality Function Deployment(QFD)

The Quality Function Deployment(QFD) is a structured approach to define user needs or requirements and translating them into specific plans to produce products to meet those needs.Based on our observations after interaction and research on the subject we summarized the following requirements that will be implemented on our tool.

2.1.1 Normal Requirements

**1. User management:** The user will be able to create an account by providing some personal information like name,email address and so on and our system will maintain a profile for each user.

**2. To-Do Lists:** The user will maintain a to-do list which will contain the task that the user feels to be done in short or long terms.

**3. Progress Tracking:** Based on setted goals, the user will be able to track his progress of the current assigned tasks.

**4. Performance Tracking:** Users can evaluate his performance based on the completed tasks.

2.1.2 Expected Requirements

**1. Reminders & Notifications:**Users will be notified from time to time based on his setted tasks and activities.

**2. Showing Stats:** Users will be able to see relevant statistics about his performance and participation.

2.1.3 Exciting Requirements

**1. Deep work tracking :** Users will be able to see in which time span users can perform better.

**2. Collaborative and competitive environment:** Users will be able to share their goals and plans with others. They can evaluate their performance with respect to others.

3. Scenario Based Modeling

The success of a computer-based system depends highly on the user's satisfaction. So if we can create different scenarios of users interacting with our system we can target these interaction scenarios and make them useful to give an overall good experience. Scenario based modeling highlights these users' interactions. This modeling uses different diagrams like use case diagram, activity diagram and swimlane diagram.These diagrams along with proper description and explanation are given below:

3.1 Use Case Diagram

A use case is a detailed description of how a user interacts with a system to accomplish a specific goal. It focuses on the user's perspective, outlining the steps involved. Primary actors are the main users directly interacting with the system and positioned at the left side , while secondary actors are external entities that provide or receive information but aren't directly using the system positioned at the right side.In the middle the main modules with which the user interacts are placed.Actors doesnt need to be physical person it can be intangible entity also like mail,third party software and so on.To show the interaction between modules and actors a line is drawn between actors and modules name. Now the use case diagram of timewise will be shown below:

3.1.1 Level 0

**Name:** TimeWise(A time and productivity management system)

**PrimaryActor:** User(Student,Teacher,WorkingPrefessional,Employee,Managers,Others)

**Secondary Actor:** Admin,Mail,Central Database

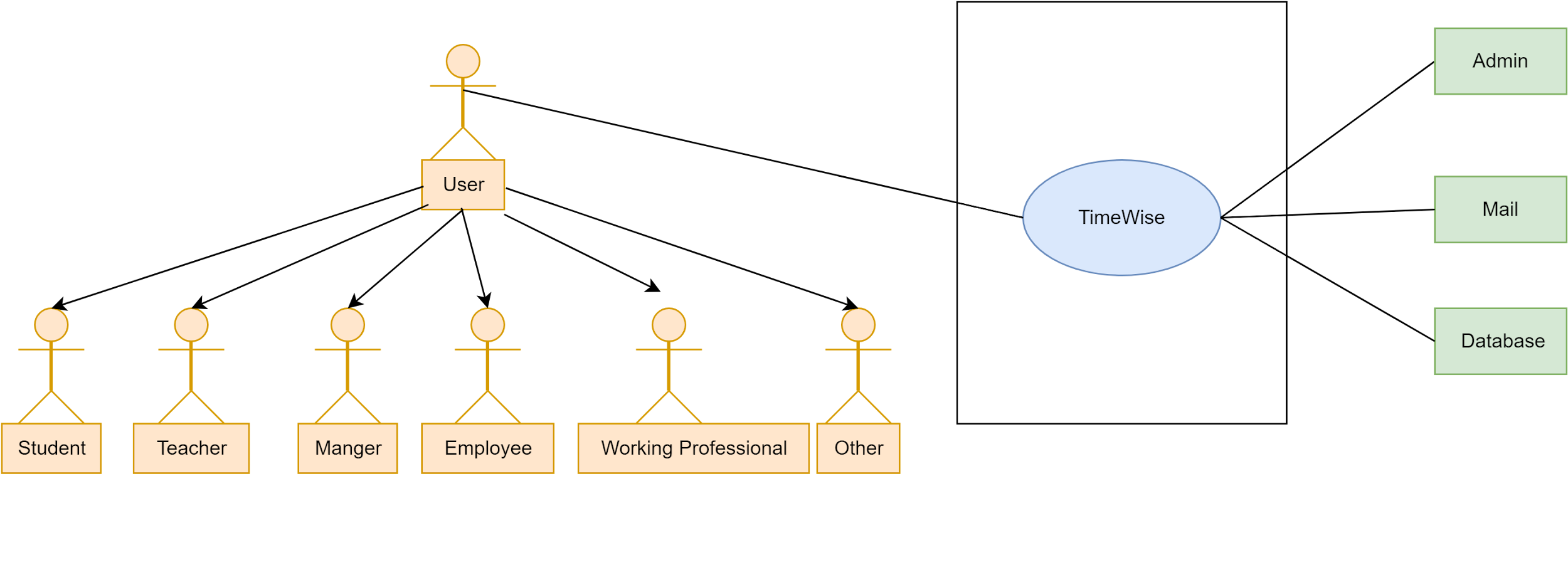
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Figure 1: TimeWise(A time and productivity management system)

3.1.2 Level 1

**Name:** TimeWise System Details

**PrimaryActor:** User(Student,Teacher,WorkingPrefessional,Employee,Managers,Others)

**Secondary Actor:** Admin,Mail,Central Database

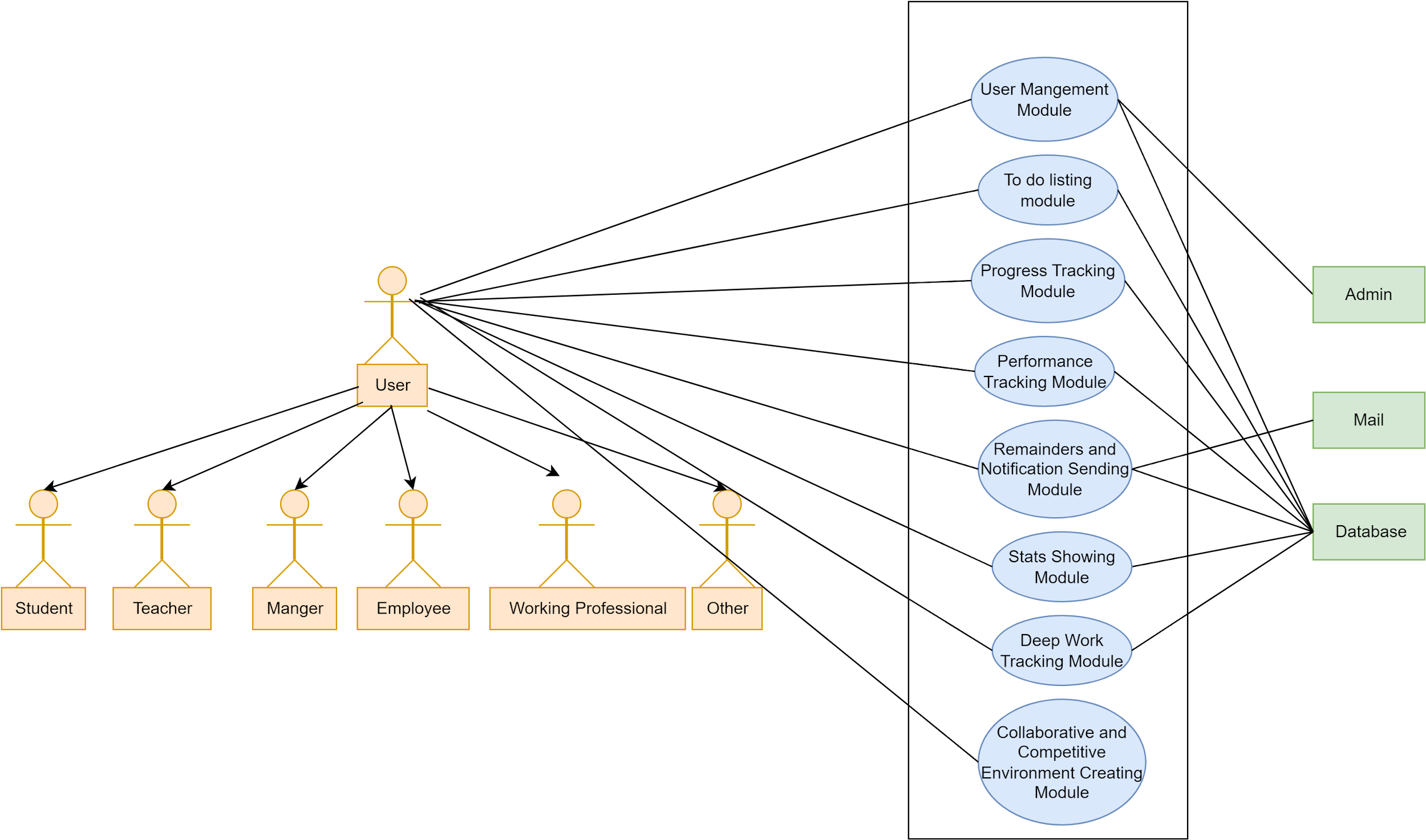
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Figure 2: TimeWise System Details

**Descriptions:**

**User Management Module:** Manage users account related activities like sign in ,sign up,collecting user credentials and maintaining a user profile and dashboard.

**To do Listing Module:** Get task information and their corresponding deadlines. This module will contain all the functionalities regarding manipulating and updating the to do list.

**Progress Tracking Module:** Shows the progress of ongoing tasks and relevant information to complete the task.

**Performance Tracking Module:** Shows how the user performed over the period of time on different completed tasks and activities.

**Reminders and Notification Module:** Sends time to time reminders and notifications.

**Stats Showing Module:** Shows relevant statistics regarding the performance and participation of the user.

**Deep Work Tracking Module:** Shows how productive or efficient the users are over the different time spans.

**Collaborative and Competitive Environment Creating Module:** Creates a platform where users can collaborate with each other and become more productive by healthy competition.

The user will interact with all the modules as they are consumers of the whole system. The mail system will be used for sending notifications and reminders. The database will be a key part for providing and storing data to different modules. The admin will take part in managing users accounts.

3.1.2.1 Level 1.1

**Name:** User Management Module

**PrimaryActor:** User(Student,Teacher,WorkingPrefessional,Employee,Managers,Others)

**Secondary Actor:** Admin,Central Database

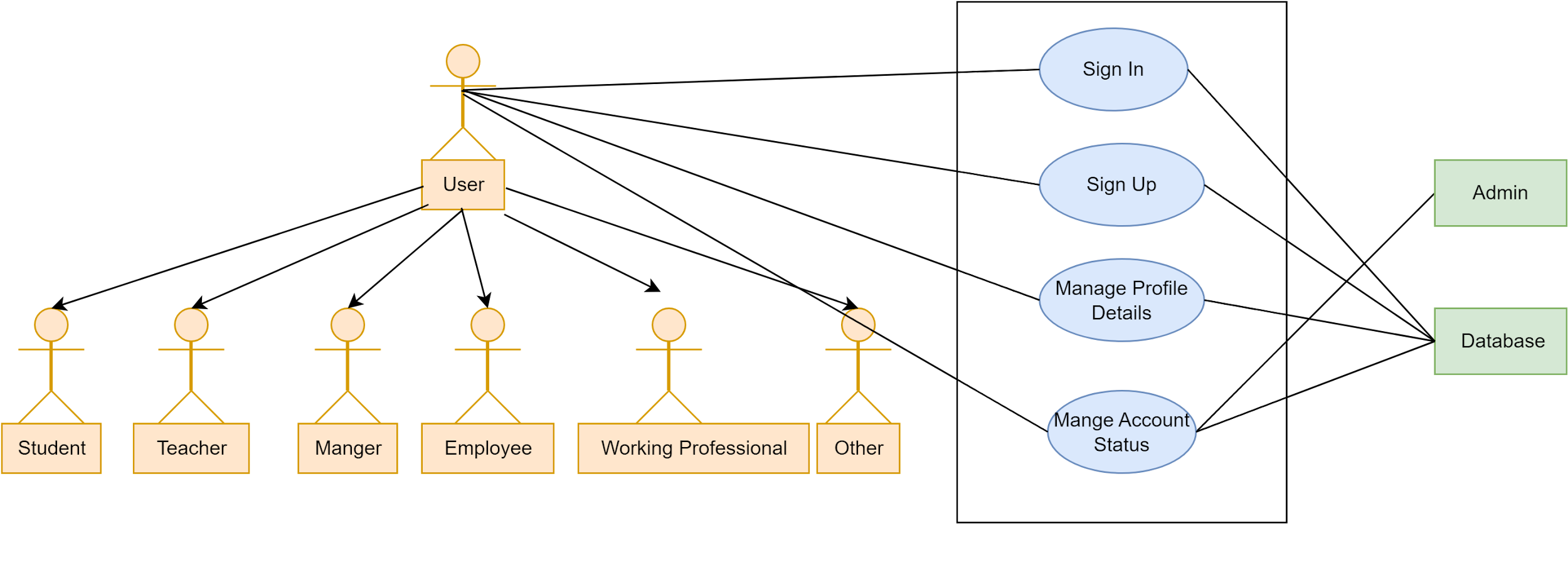
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Figure 3: User Management Module

3.1.2.2 Level 1.2

**Name:** To do Listing Module

**PrimaryActor:** User(Student,Teacher,WorkingPrefessional,Employee,Managers,Others)

**Secondary Actor:** Central Database

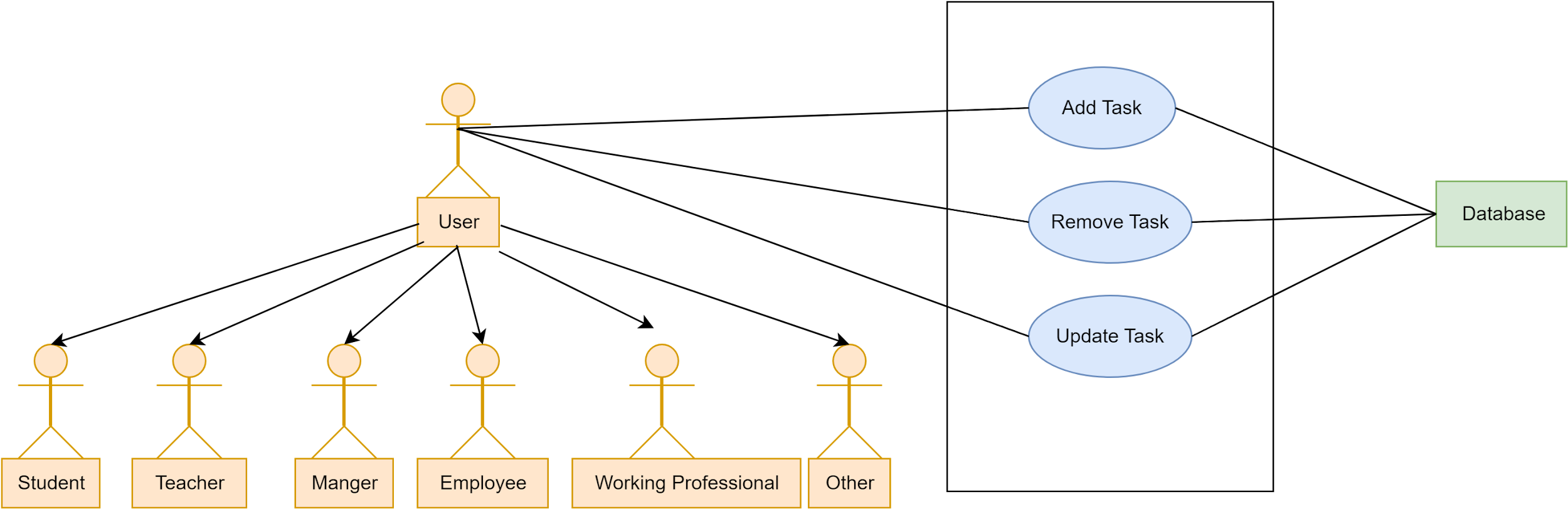
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Figure 4:To do Listing Module