



# Sprt1 : Project Management Platform

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GROUP 3

Jan | 2023

**.SWitCH();**



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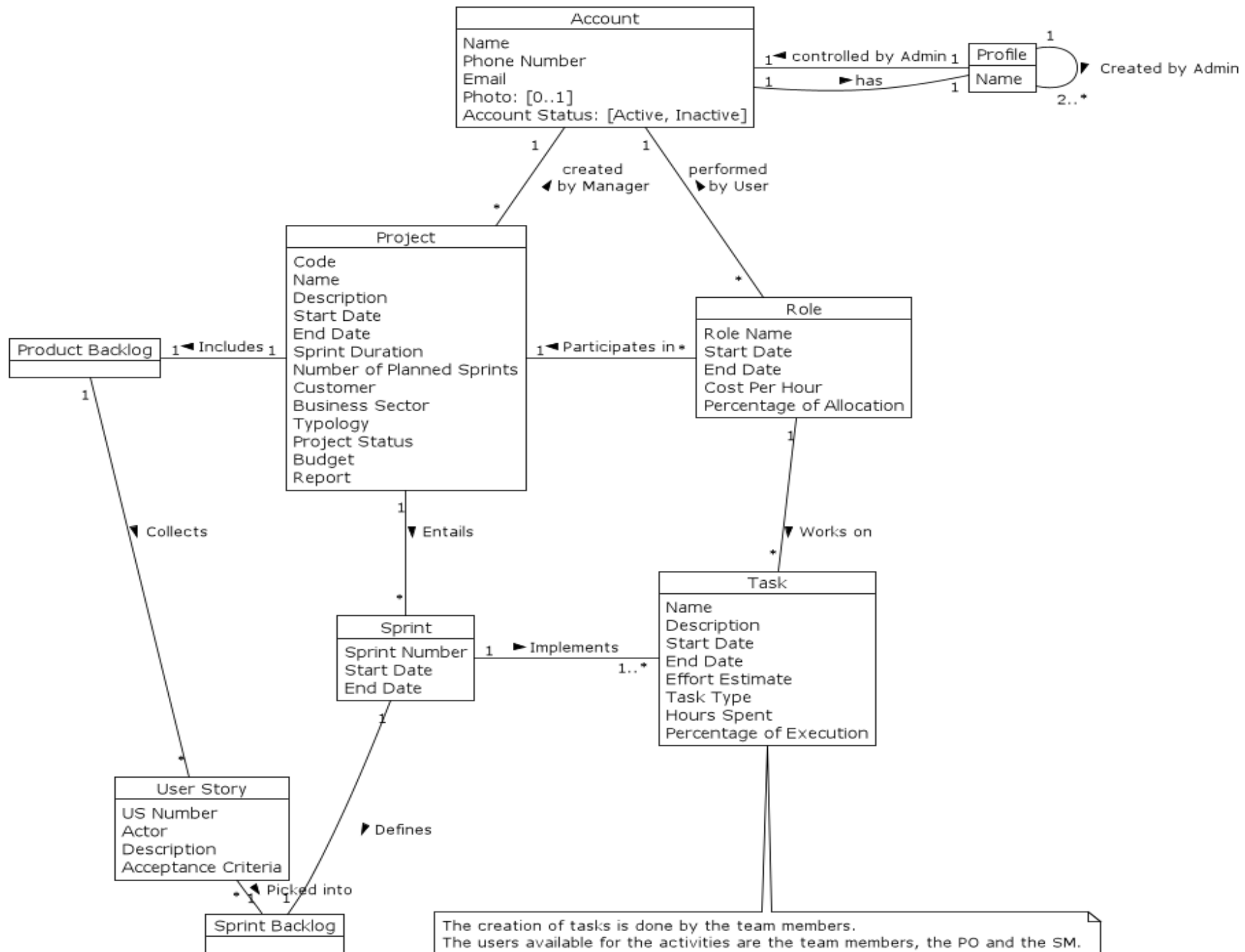




# Domain Model Diagram

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INTRODUCTION





# Conceptual Classes

## Category List

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INTRODUCTION

CATEGORY	CANDIDATE CLASSES
Products/Services	ProjectManagement
Roles	Administrator, Manager, User; ProjectManager, ProductOwner, ScrumMaster, TeamMember; ProjectUser
Places	System/Platform
Noteworthy Events	UserRegistration, ProfileChange, AccountActivation, AccountInactivation, UserAllocation, SprintCeremonies, Sprint
Descriptions of things	ProductBacklog, ProjectTypology, TaskType
Containers of things	AccountList, ProfileList, Roles, UserStory, ProductBacklog, SprintBacklog, ProjectTimeline, Project
Elements in containers	User, Task, UserStory
Other (external) Systems	LegacyPlatform
Records of Finance, work, etc	Budget
Documents/Files mentioned	AllocationReport, KPIReport, LogFile
Performance tools	BurndownChart, SchedulePerformanceIndex, CostPerformanceIndex



# Glossary

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INTRODUCTION



TERM (EN)	TERM (PT)	DESCRIPTION
Account	Conta de Utilizador	Information that represents a person in the system.
Activity	Atividade	The same as Task.
Administrator Profile	Administrador, perfil de	Profile responsible for registering and managing Accounts and creating Profiles, associate Accounts to Profiles and general system configurations. When the system is installed, an Account with this Profile is automatically registered.
Allocation Report	Relatório de Alocação	Report containing information about the Projects to which each Resource is assigned at each time.
Burndown Chart		Graphical representation of the Tasks left to do in a Sprint vs time.
Credentials	Credenciais	Information required for a person to access the system, email and password.
Cost Performance Index (CPI)		A measure of cost-effectiveness in a Project. It represents the amount of work done per unit of cost spent.
Gantt format	Gantt, Formato de	A type of bar chart that illustrates a project schedule.
Key Performance Indicator (KPI)		The critical quantifiable indicators of progress toward an intended result.
KPI Report	Relatório KPI	Report made available to a Manager, Project Manager and Product Owner displaying information relating to the performance of the Project, including SPI and CPI.
Log File		File containing a record of user operations and/or system messages. Can be of levels {"debug", "info", "warn", "error"}.
Manager Profile	Gestor, perfil de	Profile that allows access to all Projects and manage Resources. Does not participate in Projects.
Product Backlog		The ordered set (by priority) of all User Stories to be implemented in a Project. Created by the Product Owner of the Project.
Product Backlog Grooming		Decomposition of a broad User Story into several more detailed User Stories. Only done by the Product Owner on the User Stories in the Product Backlog.
Product Owner (PO)		A Role that can be associated to an Account within a Project over a certain time period. Creates User Stories and selects which to include in a Sprint Backlog with the Team Members.
Profile	Perfil	Attribute of an Account that limits which functionalities it has access to. One of {Administrator, Manager, User}.
Project	Projeto	Concerted effort with a set goal. The base entity to associate Activities and Resources.



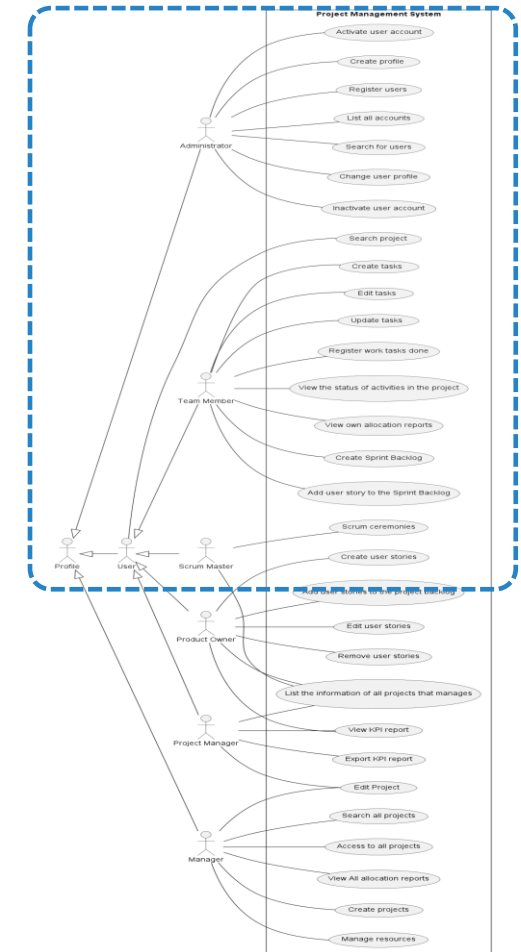
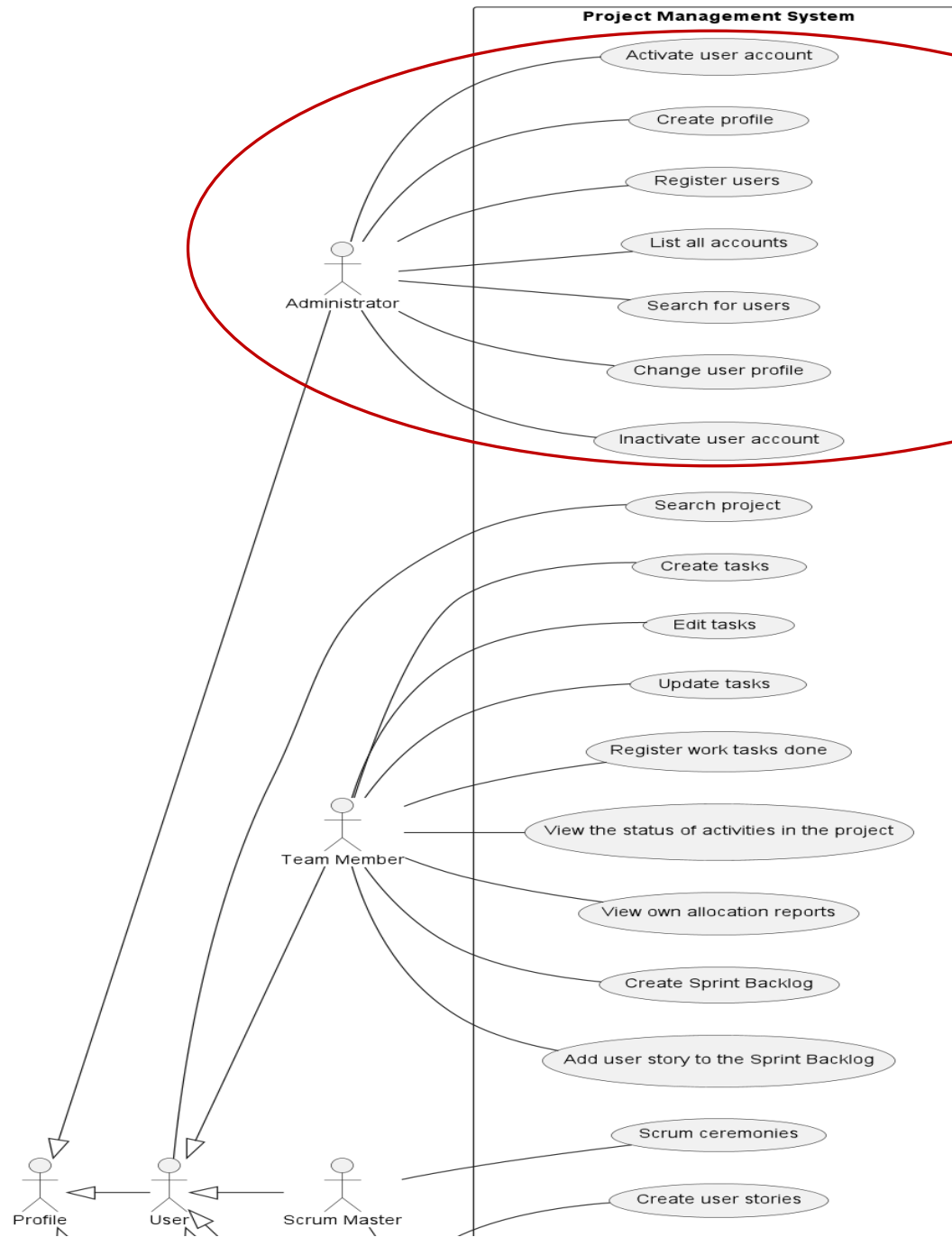
TERM (EN)	TERM (PT)	DESCRIPTION
Project Manager (PM)	Gestor de Projeto	A Role that can be associated to an Account within a Project over a certain time period. Manages the Project, and edits part of the Project information in the system. Does not participate in Tasks.
Project Registration	Registo de Projeto	The creation of a Project, done by a Manager.
Project Timeline		Planned time period for a Project. Divided into Sprints.
Report	Relatório	Document containing information relating to a Project.
Resource	Recurso	Any Account with a User Profile, representing a person that contributes to a Project.
Role	Papel	Attribute of an Account with a User Profile within a Project. One of {Project Manager, Product Owner, Scrum Master, Team Member}.
Scrum Ceremony		Event in a Scrum managed Project. One of {Sprint Planning, Sprint Review, Sprint Retrospective}.
Scrum Master (SM)		A Role that can be associated to an Account with a User Profile within a Project over a certain time period. Responsible for the Scrum Ceremonies.
Schedule Performance Index (SPI)		A measure of how close the Project is to being completed compared to the schedule.
Session	Sessão	Functionality that allows an Account to be automatically identified in several requests after a first successful authentication.
Sprint		Time unit into which a Project Timeline is divided (multiple of weeks). During this period the project team, PO and SM do not change.
Sprint Backlog		Set of User Stories to be addressed during a Sprint.
Status	Estado	Attribute of an Account. One of {Active, Inactive}.
Task	Tarefa	An activity that has to be done in order to complete a User Story. Done by Team Members.
Team Member	Membro de Equipa	A Role that can be associated to an Account with a User Profile within a Project during a period of time.
User Profile	Perfil	Default Profile of an Account. Allows the User to perform Tasks and be attributed Roles in Projects.
User Registration	Registo de Utilizador	The creation of an Account, done by an Administrator.
User Story		A way of expressing the requirements of a Project.

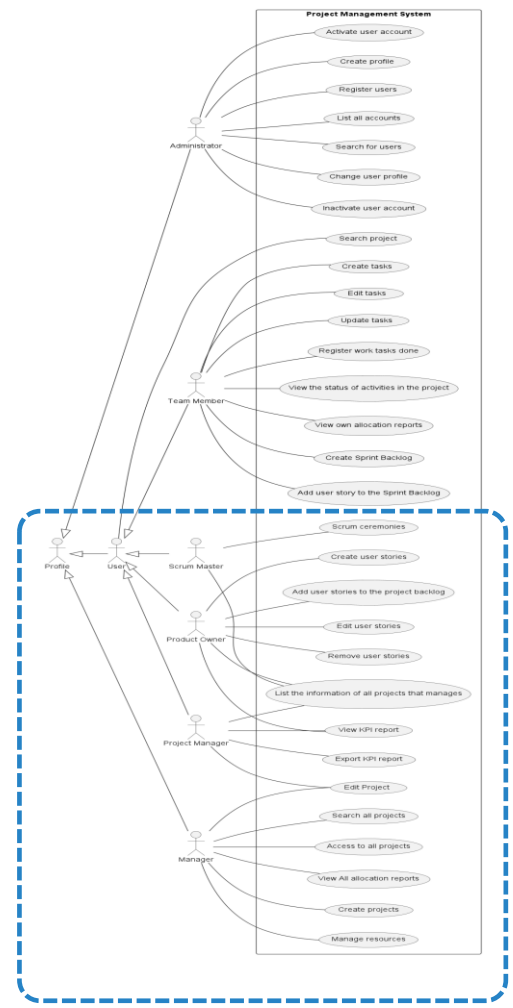
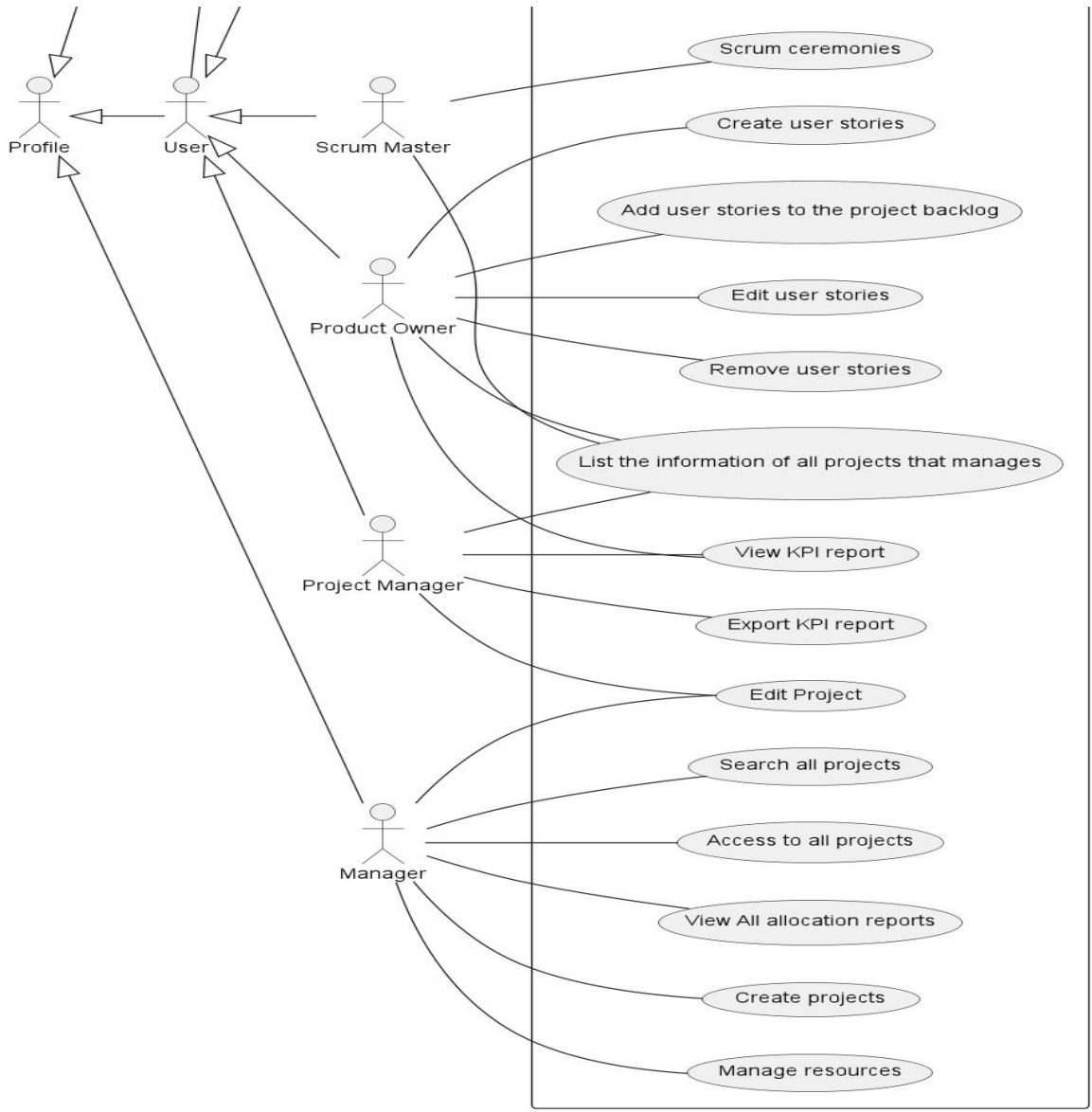


# Use Case Diagram

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INTRODUCTION







# User Story 1

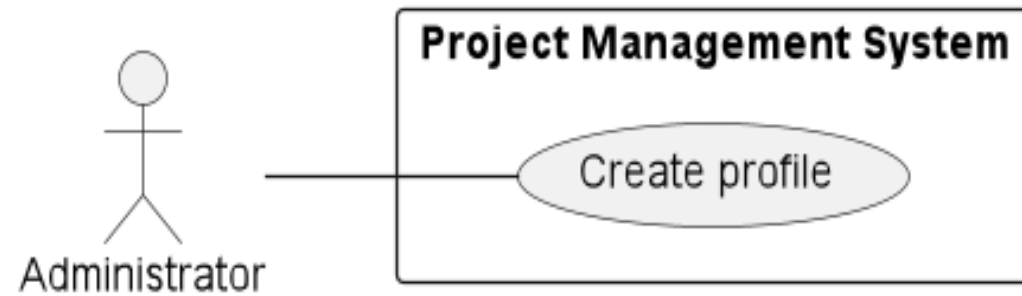
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As Administrator,

I want to create user profiles

# US001 : Use Case Diagram

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# US001 : Requirements Engineering

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## 1.1 – USER STORY DESCRIPTION

As Administrator, I want to create user profiles.

## 1.2 – CUSTOMER SPECIFICATIONS AND CLARIFICATIONS

From the specifications document:

"Administrator profile is available when the system is installed (an account with this profile should be automatically created with installation)";

"Configuration of profiles associated with users is available to the administrator, in order to restrict access to features. Each profile will have permissions associated with available actions and functionalities".

From the client clarifications:

**Question:** Should the administrator be able to configure other profiles (besides Administrator, Manager and User)?

**Answer:** "For now, only those three. In the future, other profiles may appear".

**Question:** Is there only one Administrator, or can several users be assigned this profile?

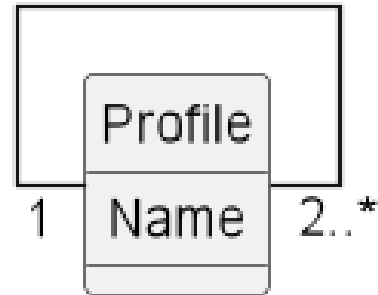
**Answer:** "There's no reason to restrict it to one user. But it's irrelevant".



# US001 : Domain Model Diagram

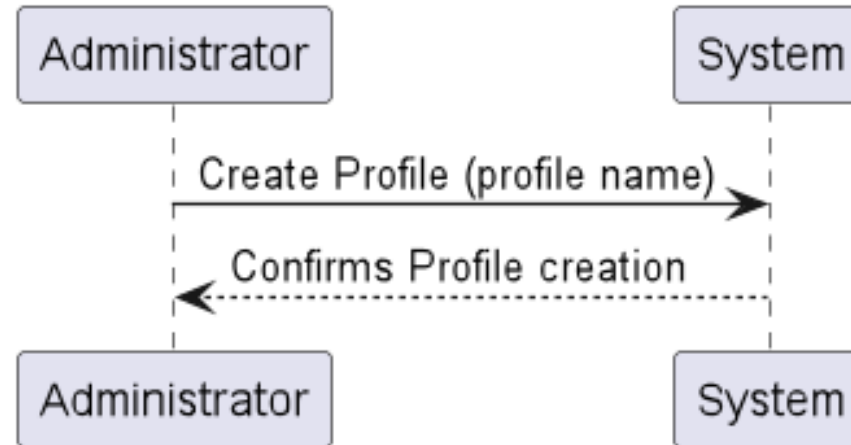
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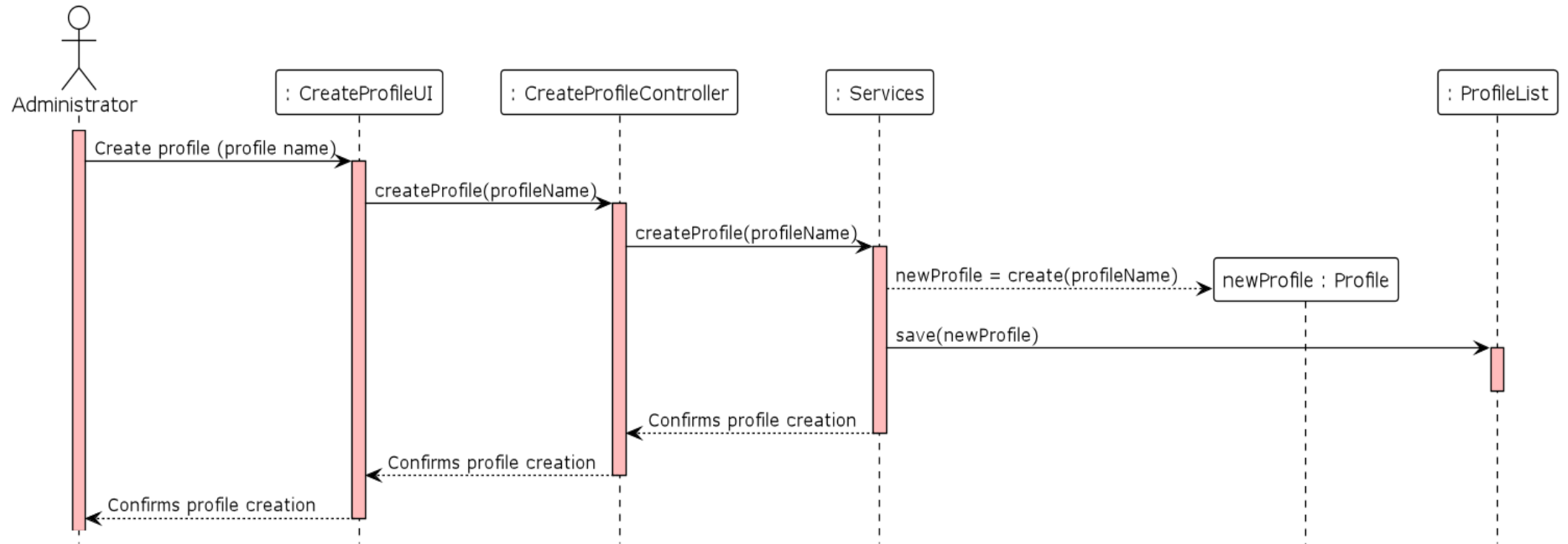
# US001 : System Sequence Diagram

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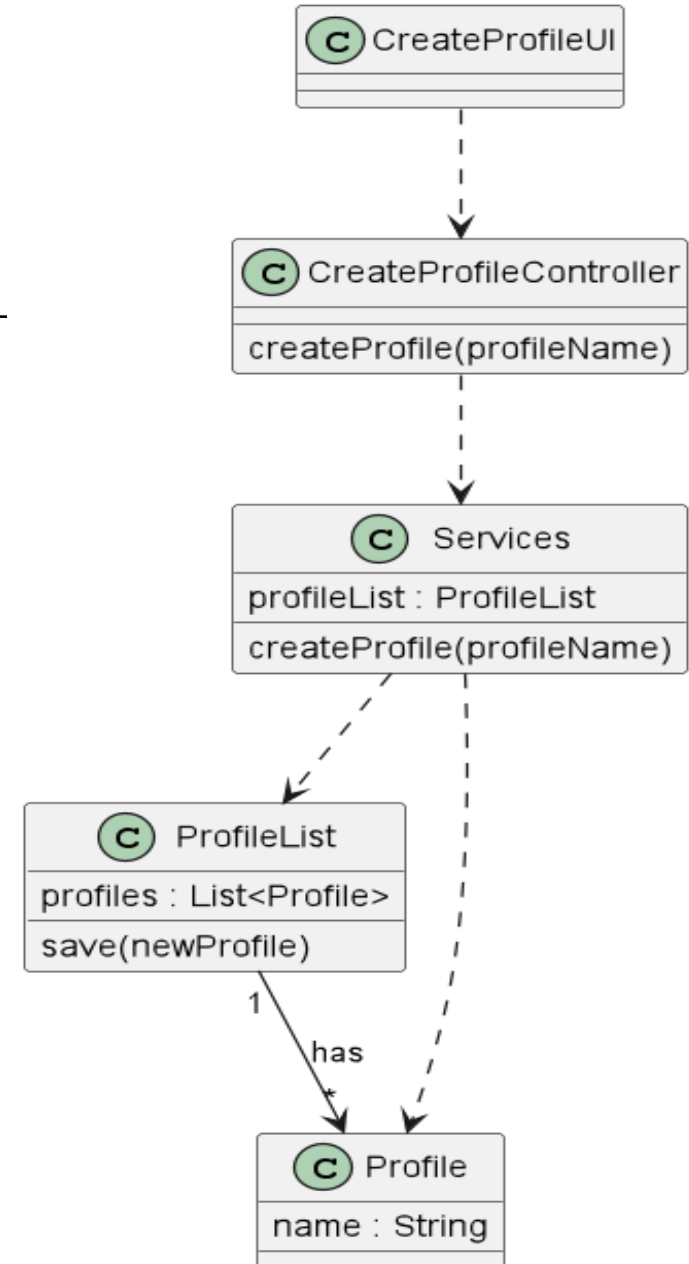
# US001 : Sequence Diagram

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# US001 : Class Diagram

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## User Story 2

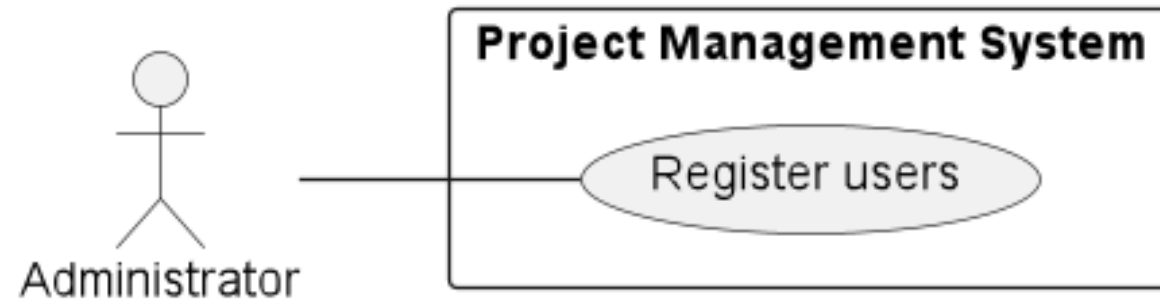
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As Administrator,

I want to register a user

# US002 : Use Case Diagram

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# US002 : Requirements Engineering

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## 1.1 – USER STORY DESCRIPTION

As Administrator, I want to register a user.

## 1.2 – CUSTOMER SPECIFICATIONS AND CLARIFICATIONS

From the specifications document:

The system should make it possible for the Administrator to register users through a form accessible via a link in the login zone. Each user's registration must request at least the following information: “Name”, “E-mail”, “Phone number”, “Photo (optional)”. The user is automatically associated with the “User” profile.

From the client clarifications:

Question: Are there restrictions to consider a username valid (e.g., minimum number of characters)? Must the user provide their First and Last name in separate fields?

Question: From which countries do you accept registrations? (which phone number formats are valid?)

Question: Should there exist a default photo for users that do not want to upload a photo on their profile?



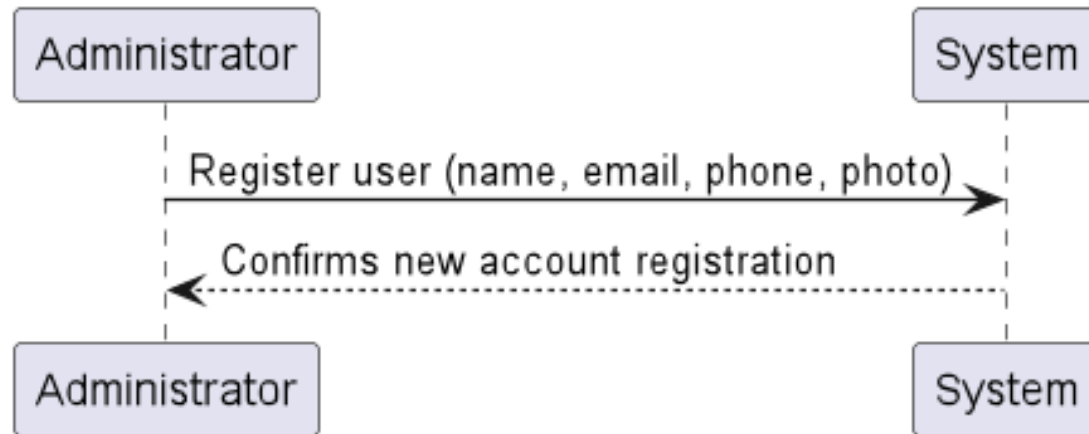
# US002 : Domain Model Diagram

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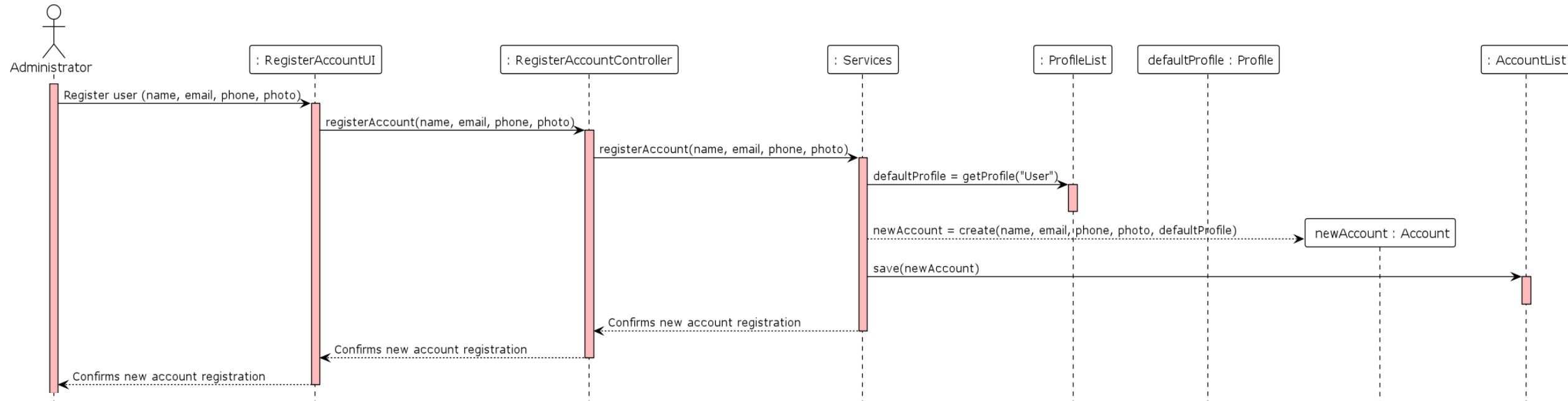
# US002 : System Sequence Diagram

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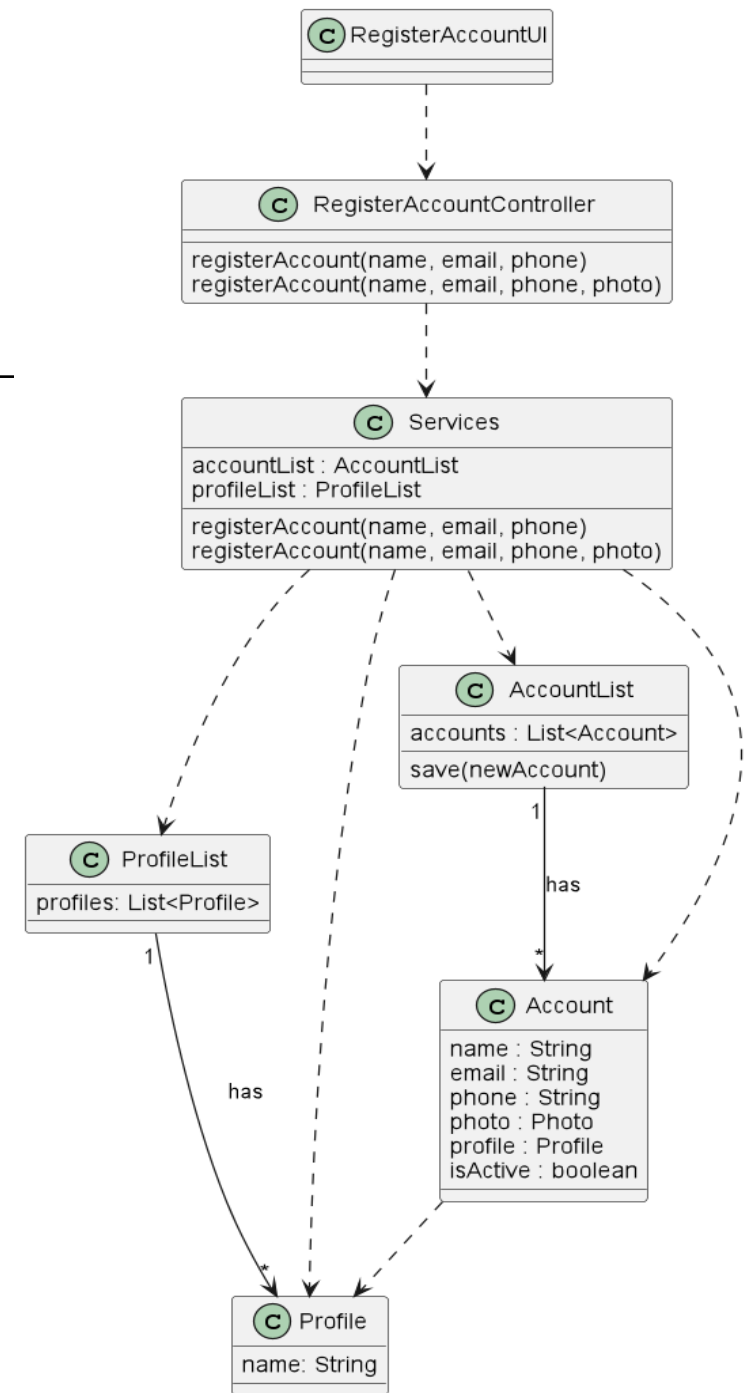
# US002 : Sequence Diagram

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# US002 : Class Diagram

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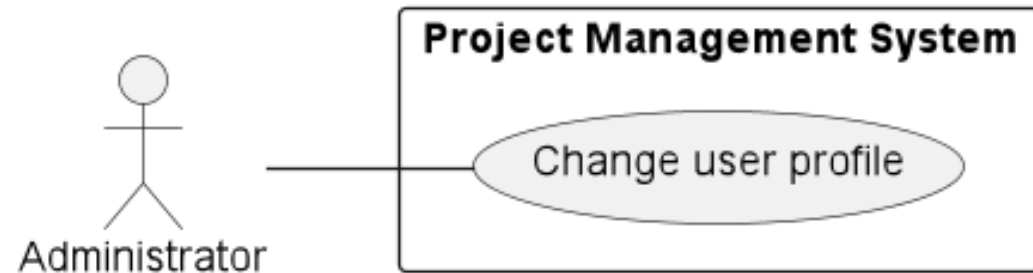
## User Story 3

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As Administrator, I want to  
change the profile of a user account

# US003 : Use Case Diagram

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# US003 : Requirements Engineering

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## 1.1 – USER STORY DESCRIPTION

As Administrator, I want to change the profile of a user account.

## 1.2 – CUSTOMER SPECIFICATIONS AND CLARIFICATIONS

From the specifications document:

"The system should have an administration area, which allows the Administrator to [...] Associate user accounts with existing profiles[...]".

From the client clarifications:

Question: Is it possible to associate the “Administrator profile” to any other user account?

Answer: Yes, see US001.

Question: Should it be possible to perform any further alterations to the user account besides switching the profile?



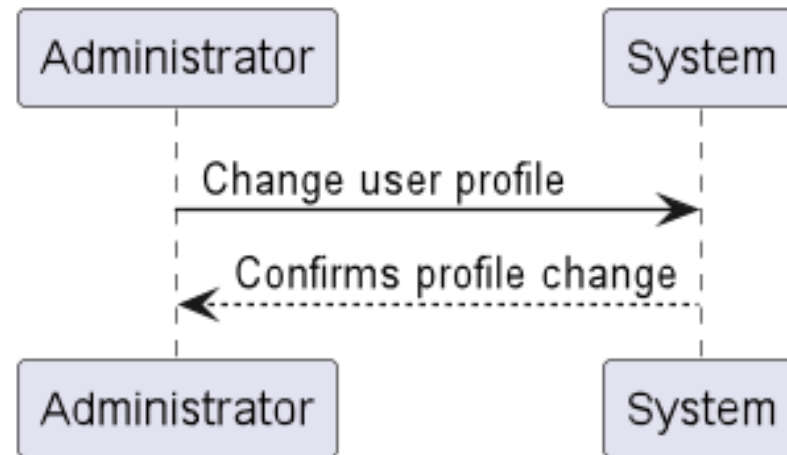
# US003 : Domain Model Diagram

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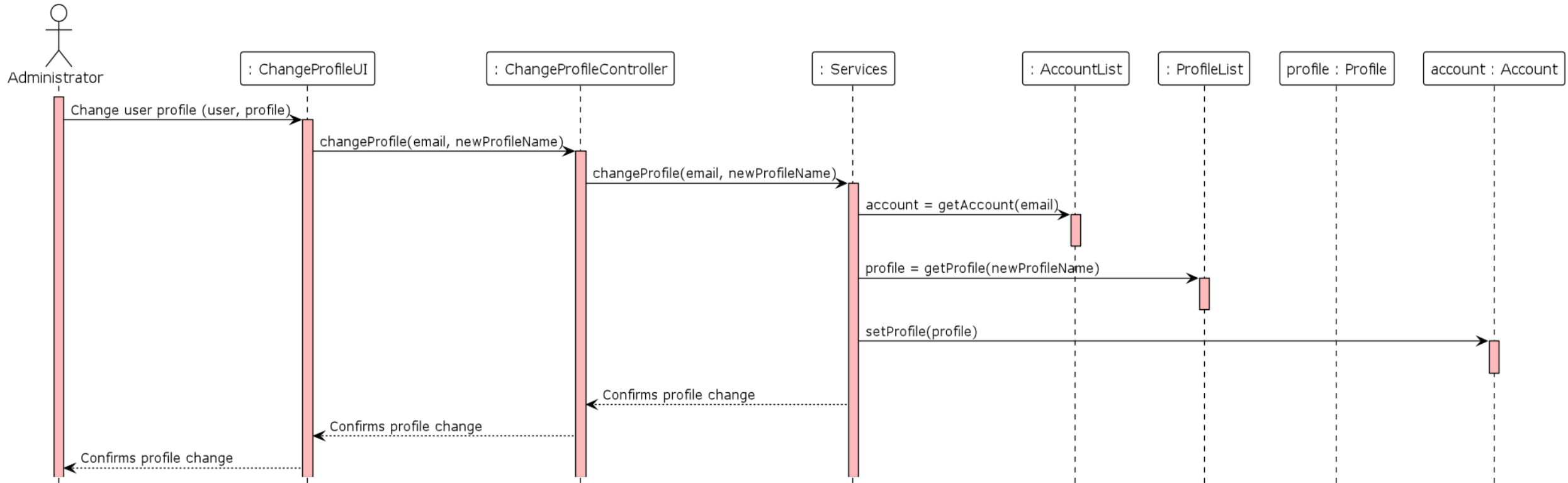
# US003 : System Sequence Diagram

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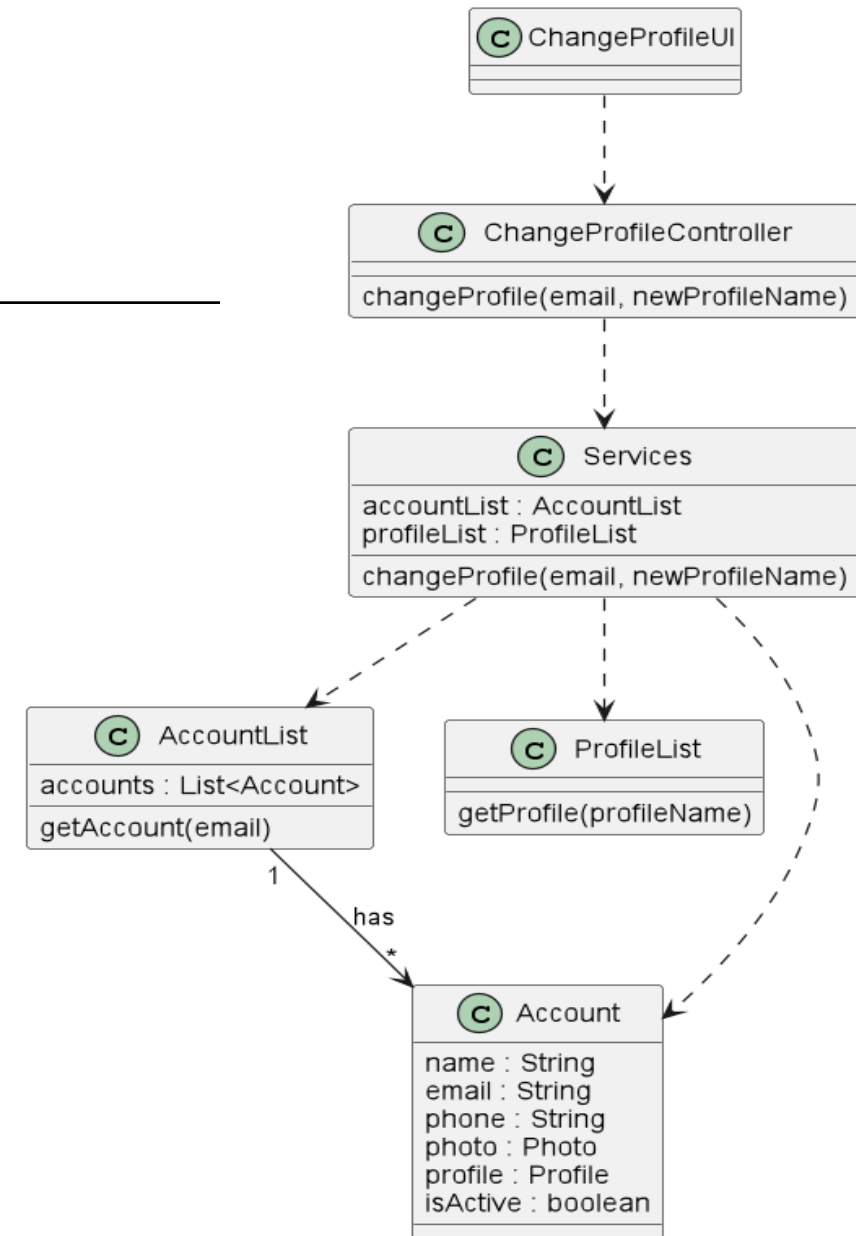
# US003 : Sequence Diagram

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# US003 : Class Diagram

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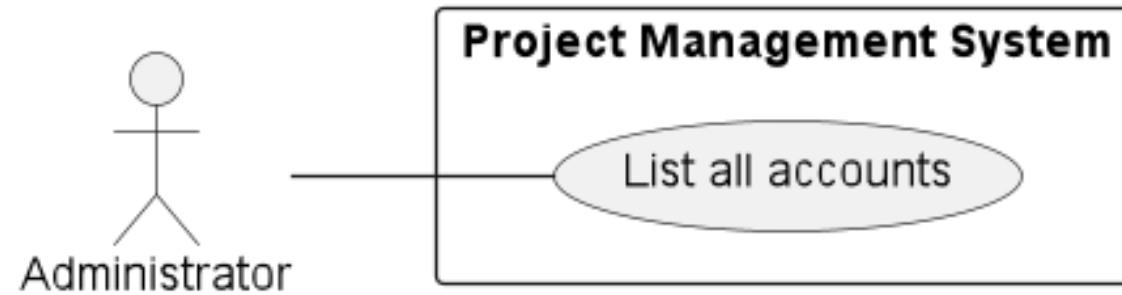
## User Story 4

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As Administrator, I want to get a list of all user accounts and their status

# US004 : Use Case Diagram

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# US004 : Requirements Engineering

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## 1.1 – USER STORY DESCRIPTION

As Administrator, I want to get a list of all user accounts and their status.

## 1.2 – CUSTOMER SPECIFICATIONS AND CLARIFICATIONS

From the specifications document:

"The system should have an administration area, which allows the Administrator to [...] List all system users; Search for users with availability of at least the following fields: E-mail; Profile [...]."

From the client clarifications:

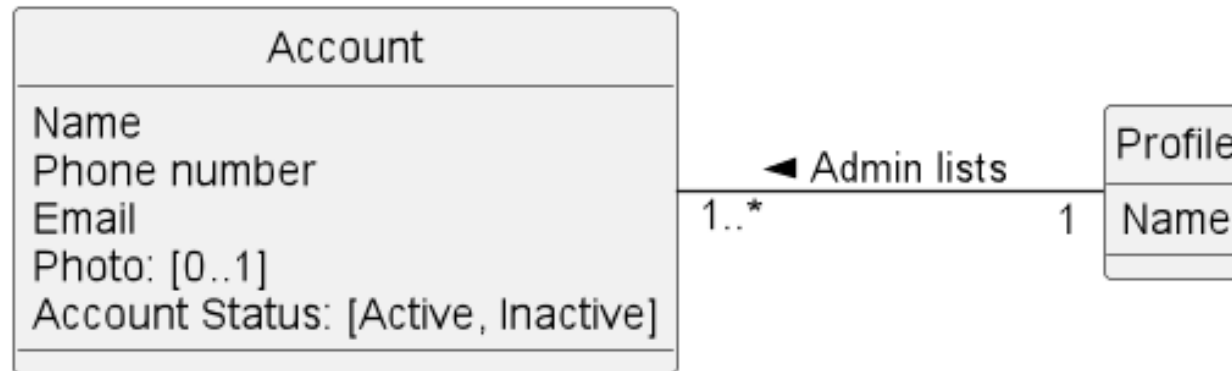
Question: What's the meaning of "status"?

Answer: The user can have two status: Active or Inactive.



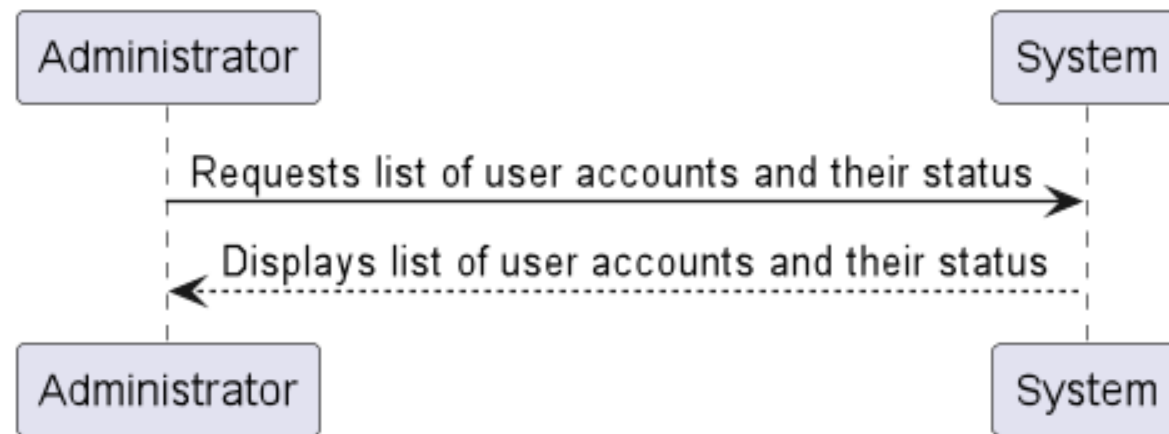
# US004 : Domain Model Diagram

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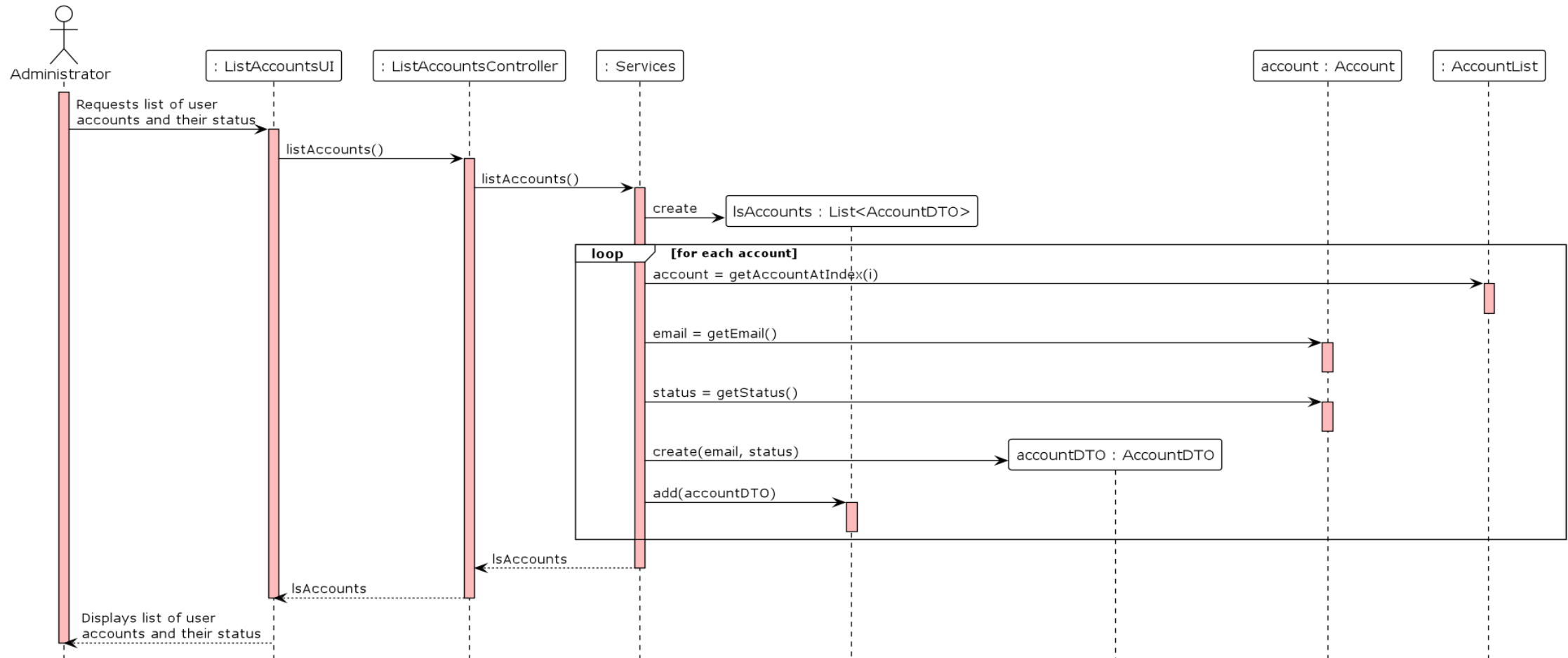


# US004 : System Sequence Diagram

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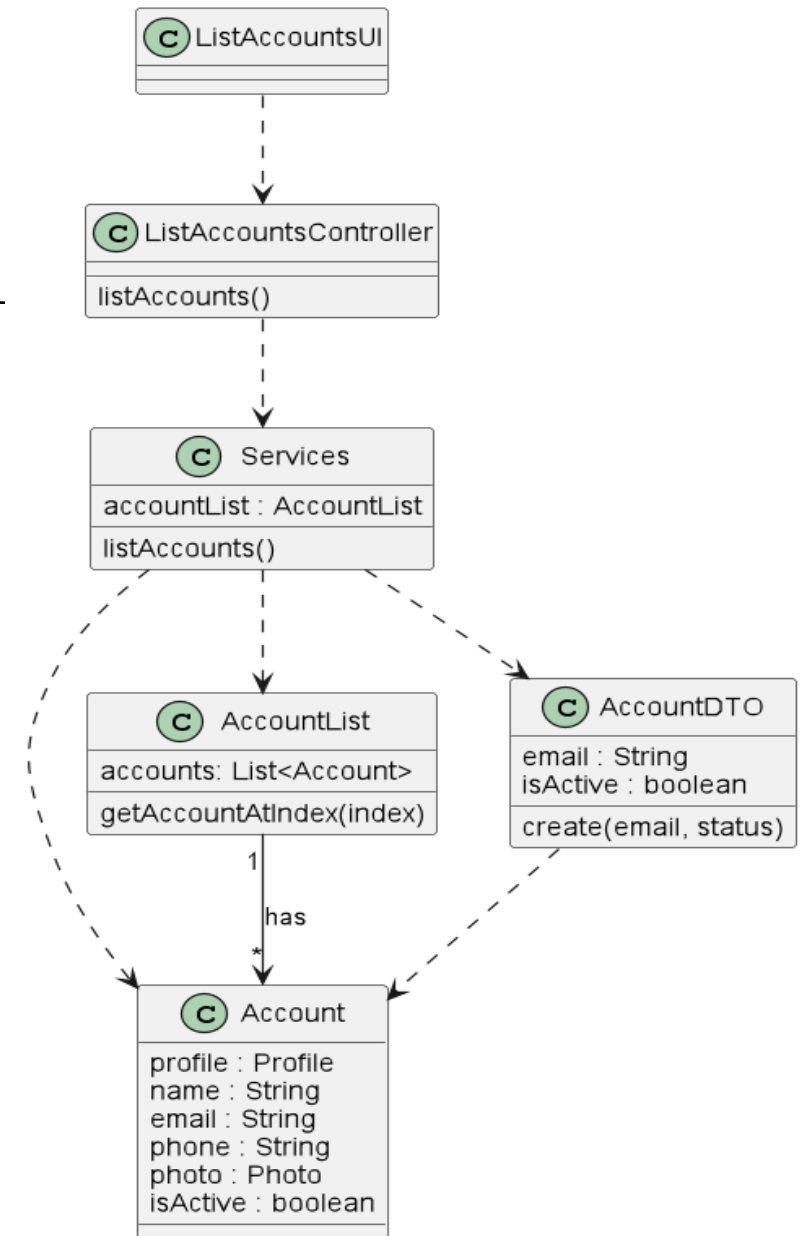


# US004 : Sequence Diagram



# US004 : Class Diagram

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## User Story 5

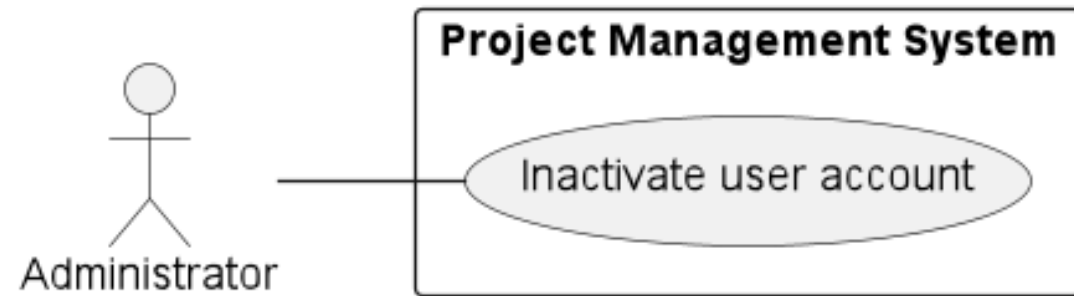
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As Administrator,

I want to inactivate a user account

# US005 : Use Case Diagram

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# US005 : Requirements Engineering

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## 1.1 – USER STORY DESCRIPTION

As Administrator, I want to inactivate a user account.

## 1.2 – CUSTOMER SPECIFICATIONS AND CLARIFICATIONS

From the specifications document:

"The system should have an administration area, which allows the Administrator to [...] Activate and disable user accounts [...]."

From the client clarifications:

Question: Which "privileges" are withdrawn from an inactive user account?

Question: In case of more than one administrator, can an administrator inactivate another administrator?

# US005 : Domain Model Diagram

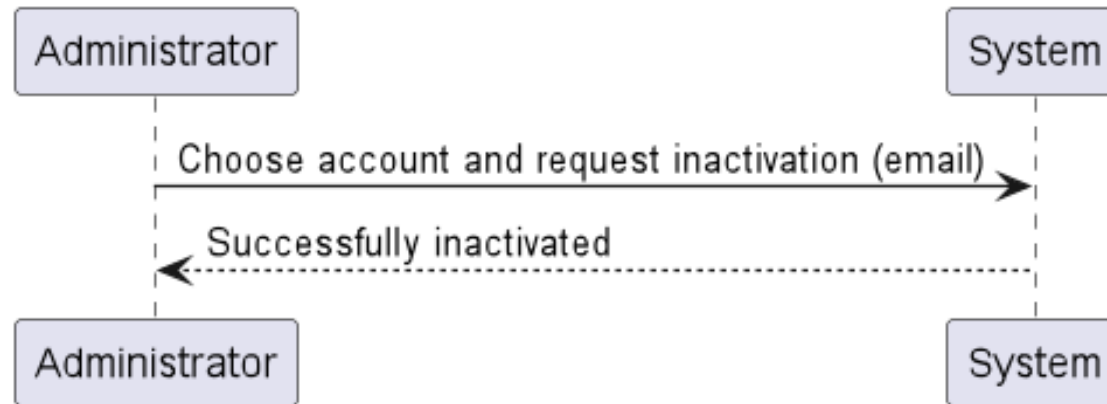
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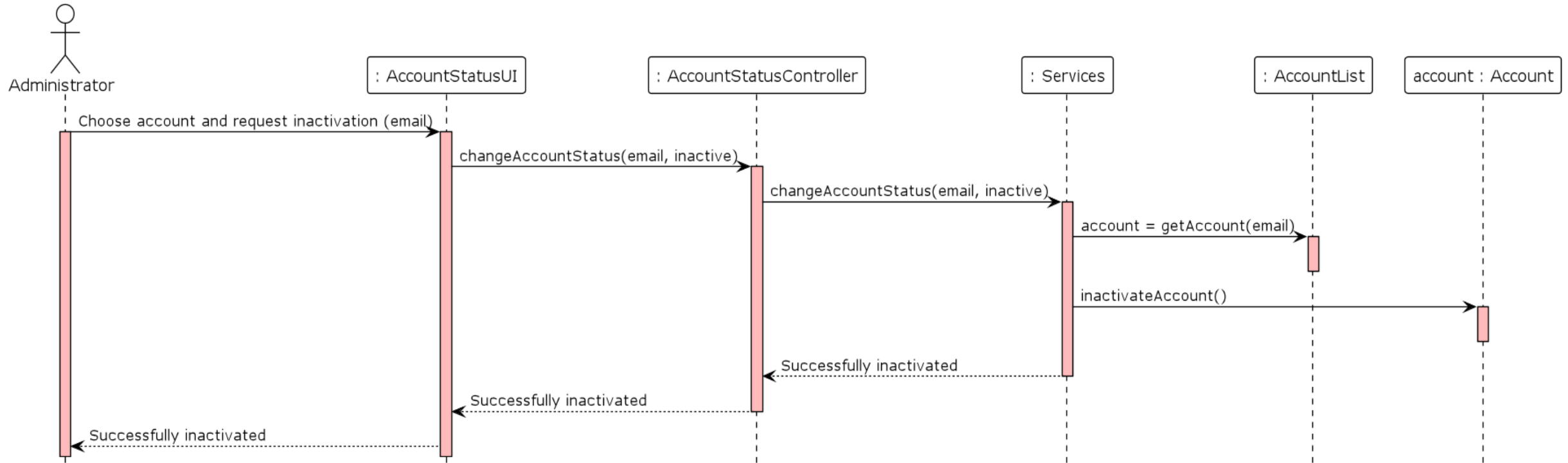
# US005 : System Sequence Diagram

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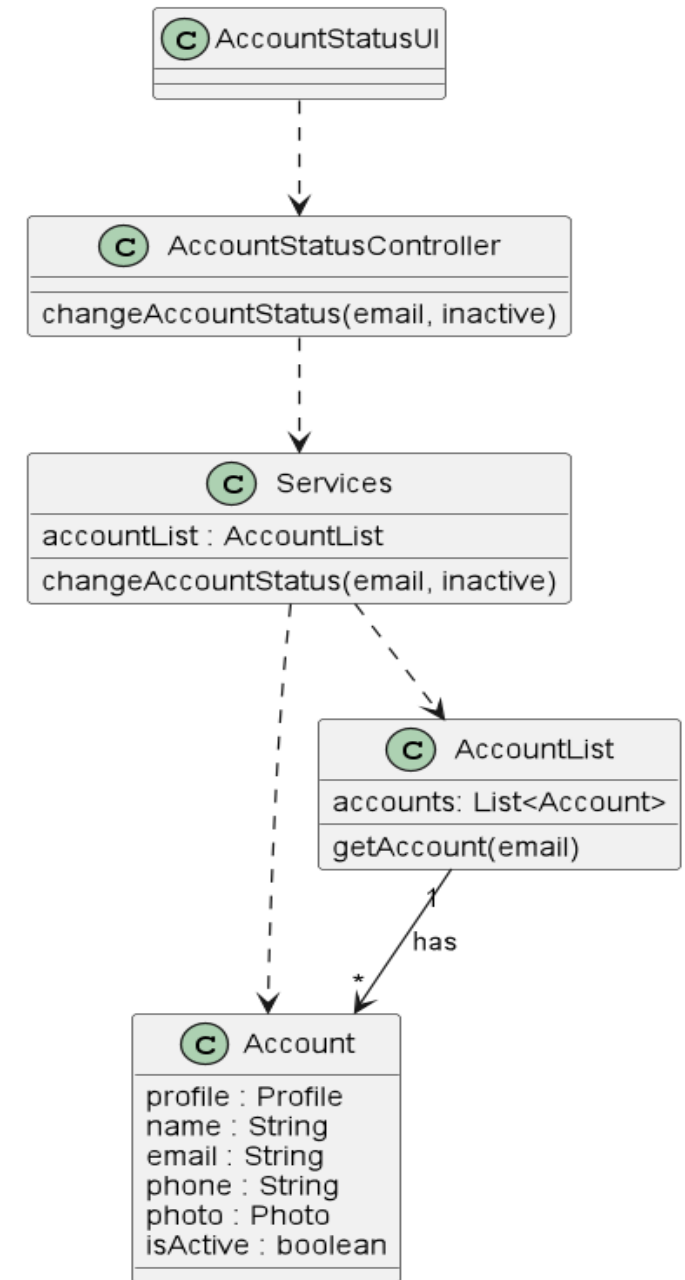
# US005 : Sequence Diagram

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# US005 : Class Diagram

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## User Story 6

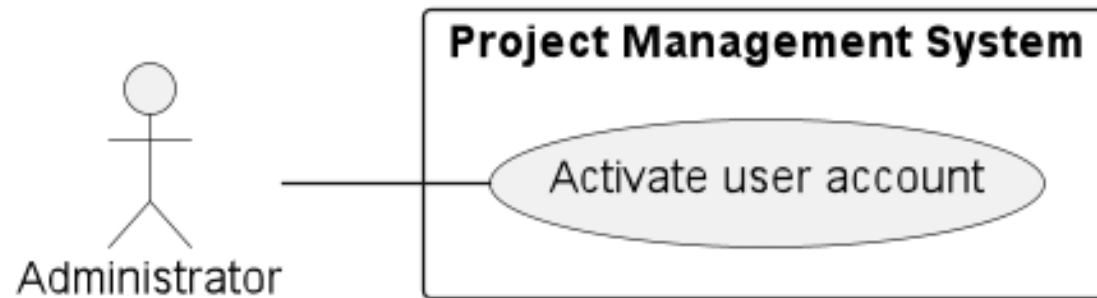
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As Administrator,

I want to activate a user account

# US006 : Use Case Diagram

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# US006 : Requirements Engineering

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## **1.1 – USER STORY DESCRIPTION**

As Administrator, I want to activate a user account.

## **1.2 – CUSTOMER SPECIFICATIONS AND CLARIFICATIONS**

From the specifications document:

"The system should have an administration area, which allows the Administrator to [...] Activate and disable user accounts [...]."

From the client clarifications:

# US006 : Domain Model Diagram

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# US006 : System Sequence Diagram

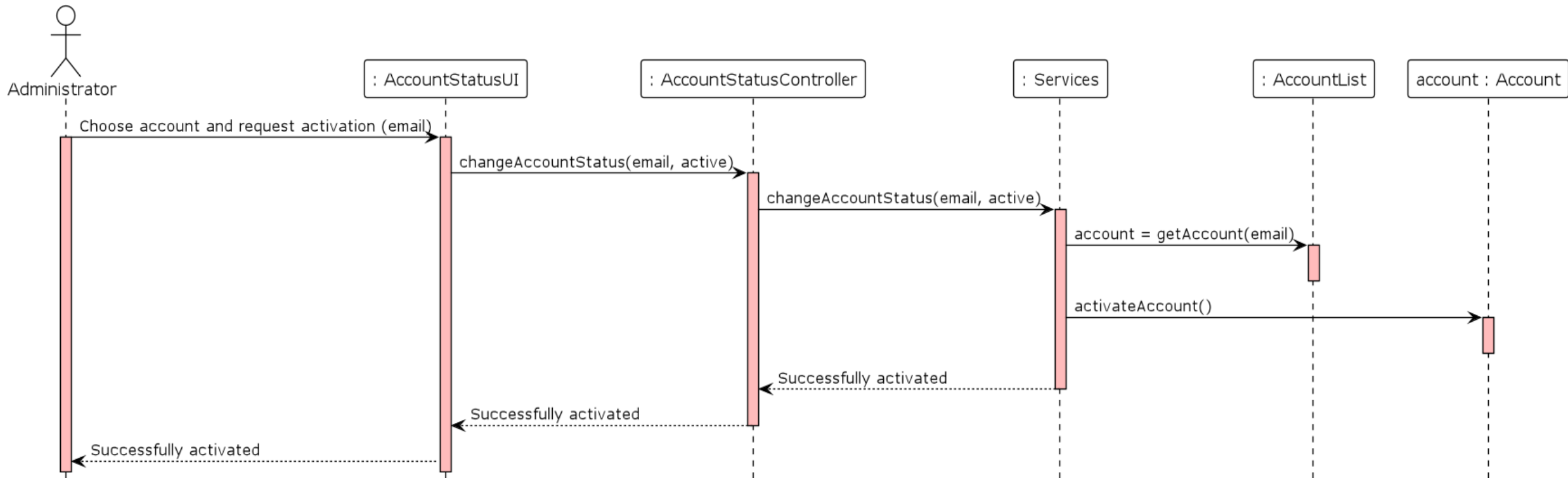
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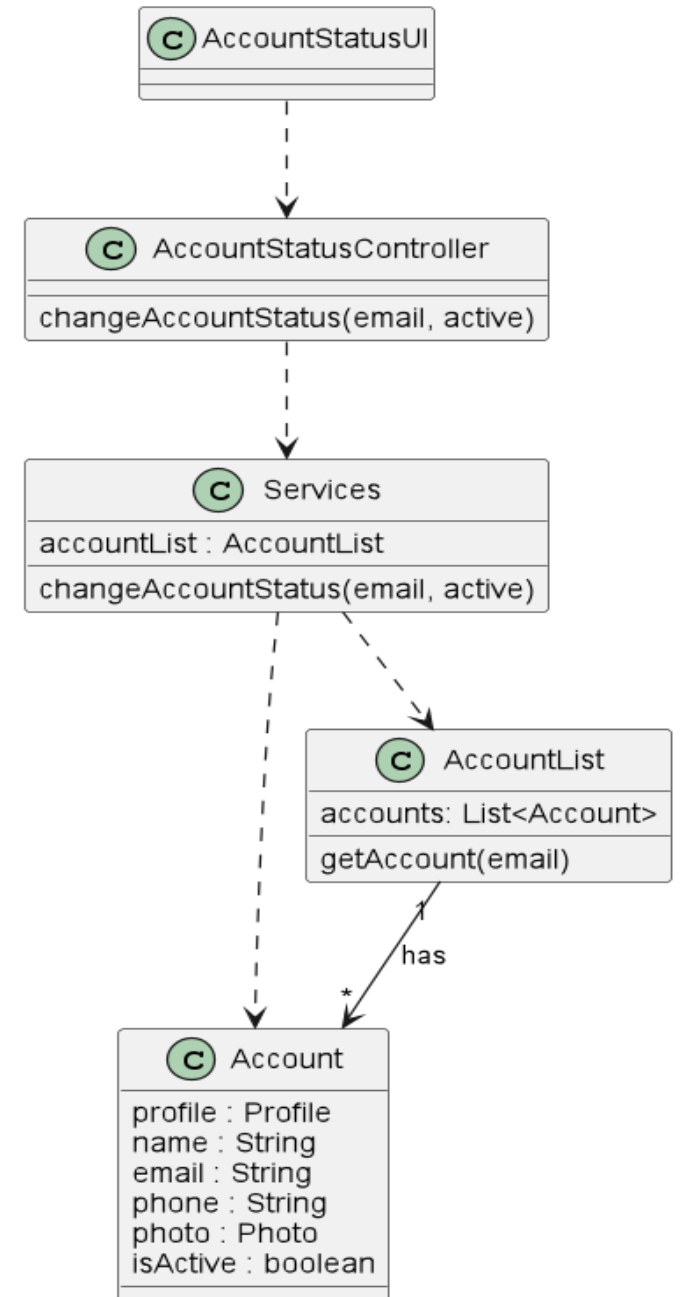
# US006 : Sequence Diagram

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# US006 : Class Diagram

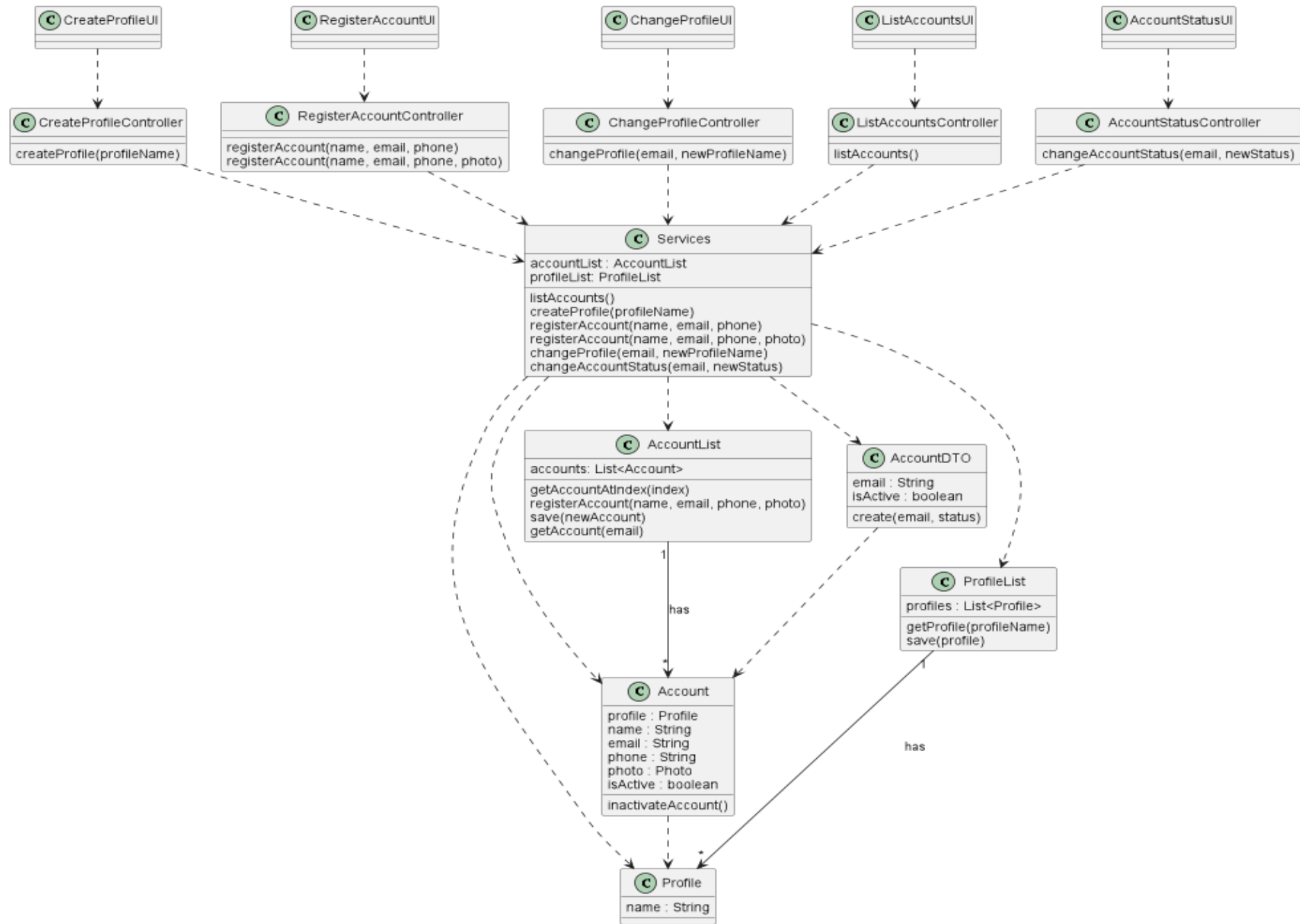
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# Class Diagram

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*“God does not  
code, and software  
developers do not  
make miracles”*

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**GROUP 3**

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Marisa Graça

Pedro Silva

Ricardo Tavares

Tiago Silva