Task Manager

The goal of the project is to provide easy and convenient way to track time spending. System allows to create tasks, set priorities, separate tasks by categories and see how much time was spent on different activities.

Roles : Guest, User, Admin

Role	Description
Guest	User that isn't logged in. Can sing up and log in.
User	Create own tasks, add description, priority and category to tasks, update and remove them, search tasks, view active/archive tasks, view statistics. Also can get info about his/her account, change password or delete his/her account.
Admin	Can view info about users and their not finished in time tasks. Has ability to lock/unlock users with option to notify them via email.

Task Management System

№	Role	Use case	Description	Action name	Tests
1		Create task	Create task in system	CreateTask	TST2 TST9 TST11
2		Change task status	Change task status in system	UpdateTask	TST3 TST12
3		Edit task	Edit task in system	UpdateTask	TST3 TST12
4	User	Archive task	Archive task in system	ArchiveTask	TST3 TST12
5		View task details	View all the details about his tasks(start date, when status were changed, category, priority, description)	ViewTaskDetails	TST7 TST13

					TST5
6		Delete	Delete task	DeleteTask	TST5 TST10 TST14 TST15 TST16

Account Management System

№	Role	Use case	Description	Action name
1	Guest	Sign up	Sign up in system	SignUp
2		Log in	Log in to the system	LogIn
3	User	Log out	Log out from the system	LogOut

User Management System

| №	Role	Use case	Description	Action name	Tests
1		Lock user	Make user temporary unavailable to login	Ban	TST17 TST18 TST20
2	Admin	Unlock user	Restore user availability to login	UnBan	TST17 TST18 TST20
3		View statistics about users accounts	View all the details about users accounts	ViewInfoAboutUsers	TST17 TST18 TST19

Tests

№	Test class	Test method	Code coverage
TST1	TaskServiceTests	GetListTest	60%
TST2		CreateTest	
TST3		UpdateTest	
TST4		AnyTest	
TST5		DeleteTest	
TST6	TaskRepositoryTests	GetListTest	
TST7		GetByIdTest	
TST8		GetByNotExistingIdTest	
TST9		AddTest	
TST10		DeleteTest	
TST11	TaskControllerTests	CreateTest	
TST12		UpdateTest	
TST13		DetailsTest	
TST14		DeleteConfirmedNotExistingTest	
TST15		DeleteTest	
TST16		DeleteNotFoundTest	
TST17	UserServiceTests	GetUserProfilesTest	
TST18		GetUserProfileByIdTest	
TST19		GetUserProfileByIdNotExistingTest	
TST20		UpdateTest	
TST21		DeleteTest	

Use case diagrams

Guest role use case diagram :
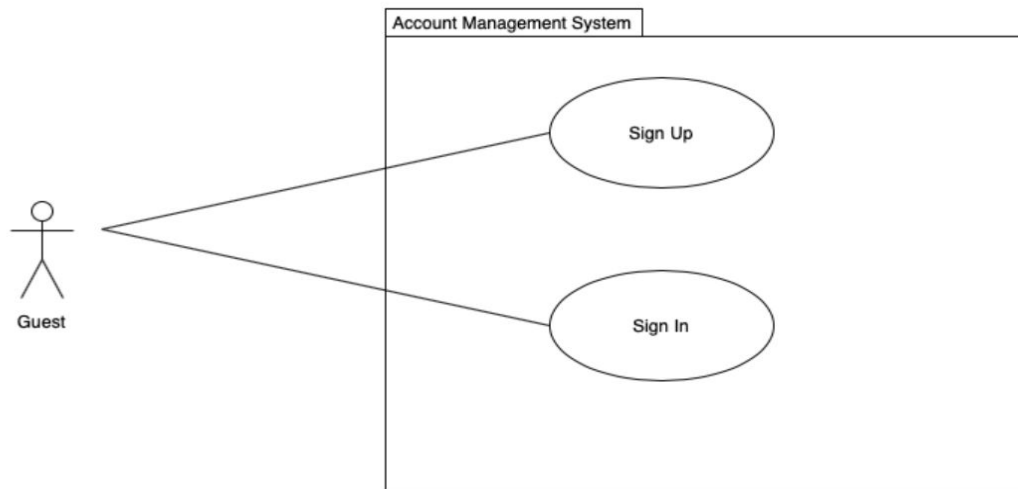
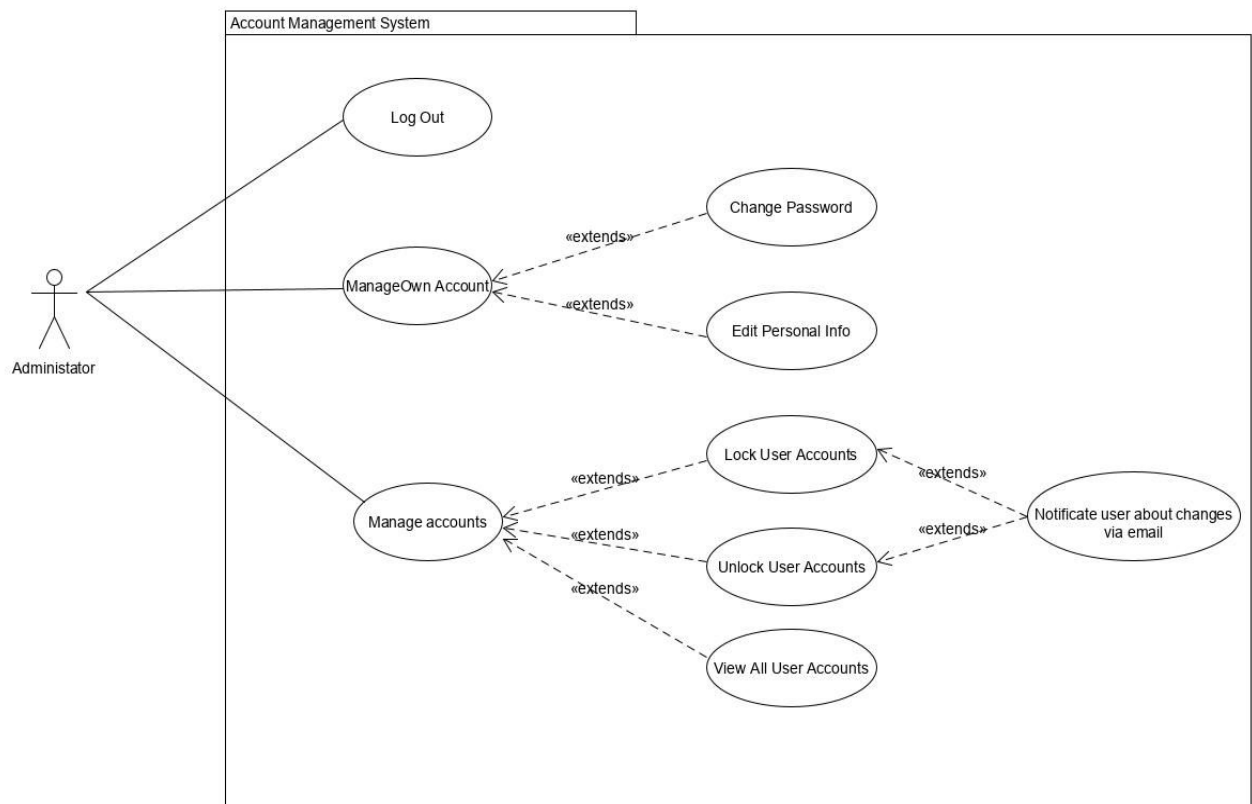## User role use case diagram :
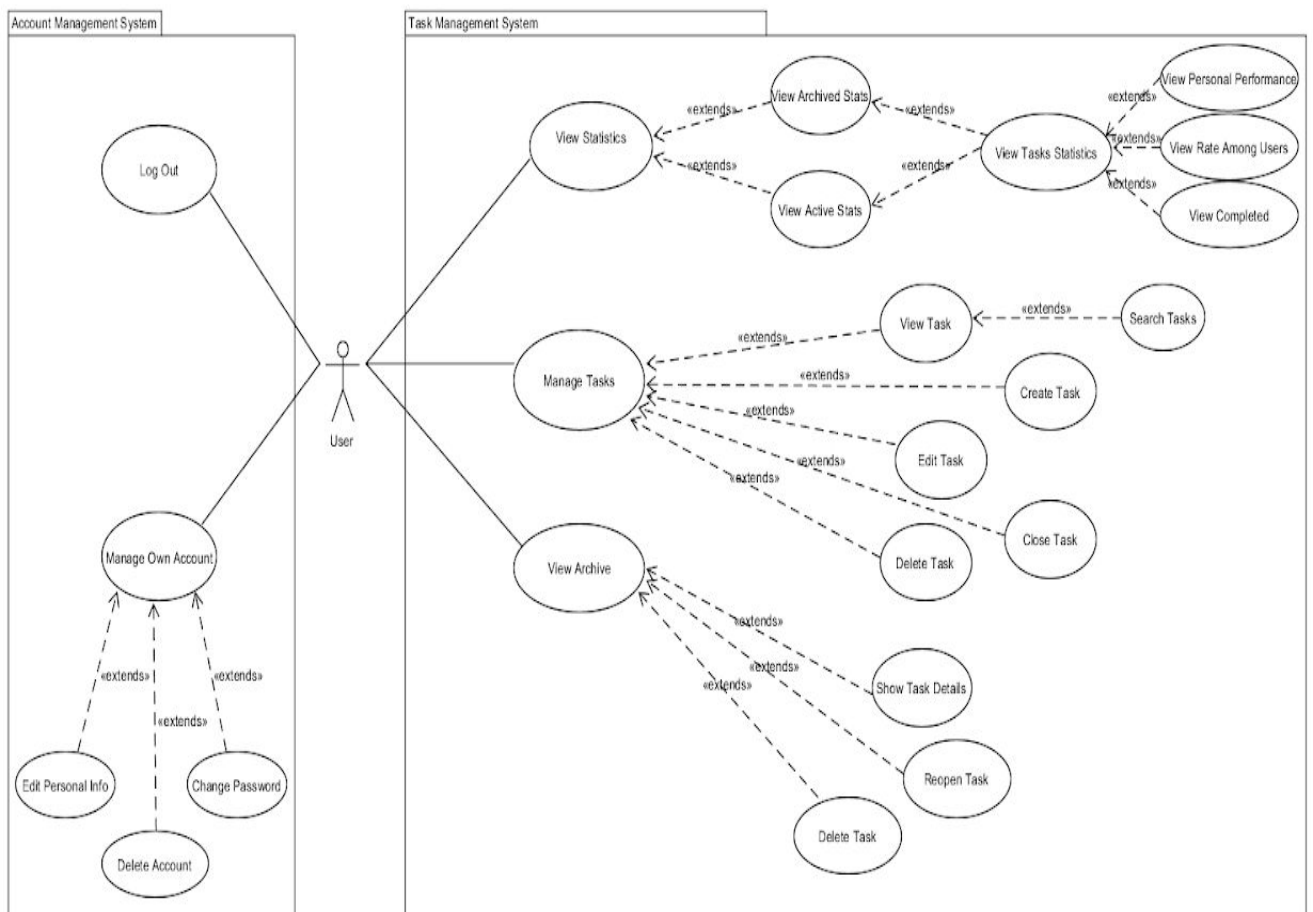
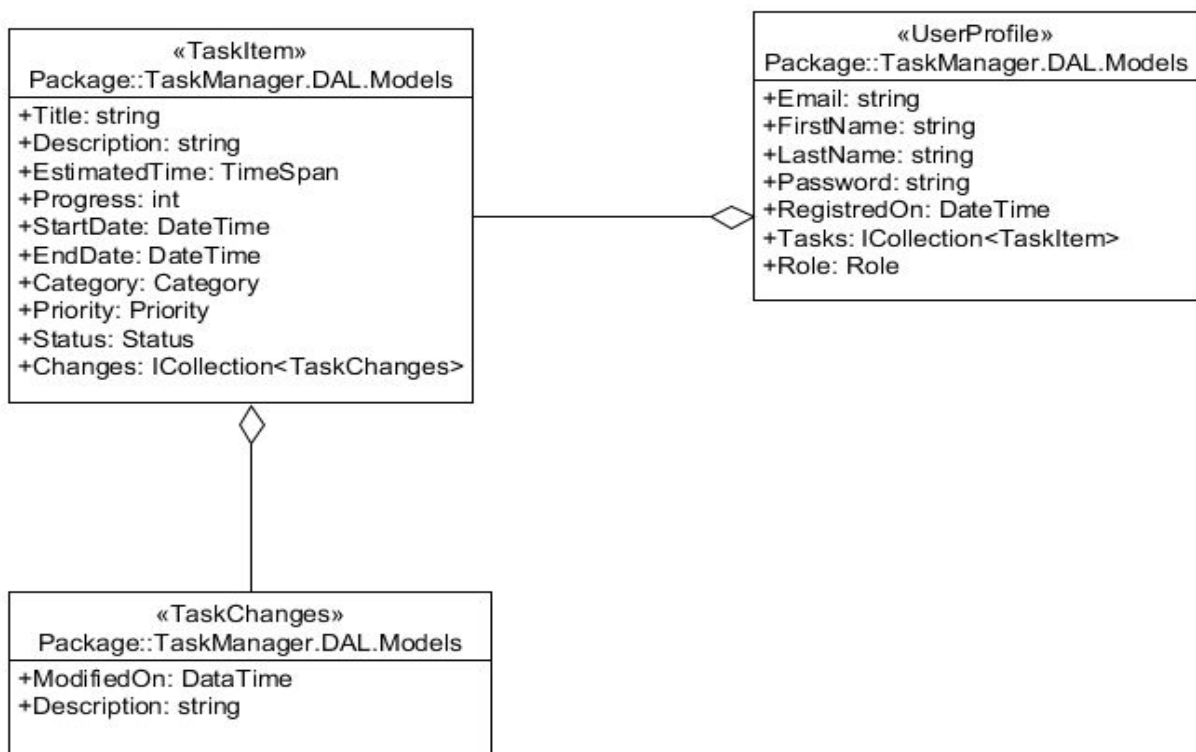# Admin role use case diagram :

Class diagram :

Sequence diagram