



Software Design & Architecture: Project Progress Report

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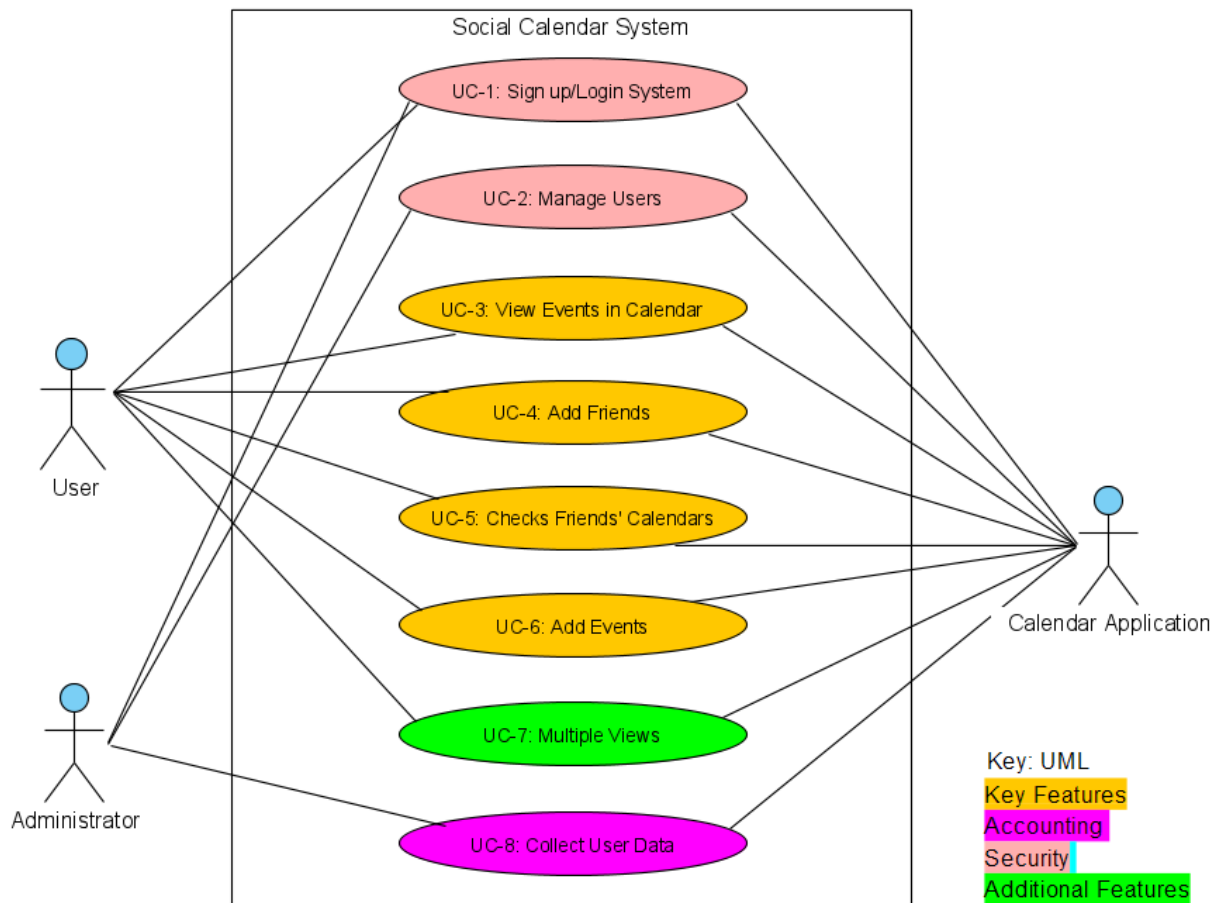
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Use Case Model:



Use Case	Description
UC-1: Sign up/Login system	Signup/Login page ask users to enter signup/login credentials.
UC-2: Manage Users	Account administrator will be able to add/remove users that are using the Calendar.
UC-3: View Events in Calendar	Users will be able to view any upcoming events in their calendar

UC-4: Add Friends	Users can send friend requests to other users or accept/decline friend requests from other users.
UC-5: Checks Friends' Calendars	Users can see their friend's calendars but not the calendar of another user that is not their friend.
UC-6: Add Events	Users can add events to their calendars
UC-7: Multiple Views	This feature will allow a user to choose how they want their calendar to be displayed (one day, one week, one year etc.)
UC-8: Collect User Data	Administrators will collect user data such as number of accounts created, number of active accounts, number of events created etc.

Quality Attributes for the Use Case:

ID	Quality Attribute	Scenario	Associated Use Case
QA-1	Security	Users need to create an account and login in order to access calendar features, so it can be known who uses the system at what time and prevents unauthorized users from accessing the system.	UC-1
QA-2	Usability	Users can share calendars together so they can collaborate in projects. It would also allow them to set up meetings which all project members could see.	UC-5
QA-3	Usability	Users can share and send their own personal calendars with their friends or other users. This will allow the users to visually compare their schedules and decide how to make events.	UC-4, UC-5
QA-4	Performance	The system will track the users' data and how often they use some of the calendar system's features. The administrator can determine if a feature needs to be tweaked or removed.	UC-11

System Constraints for the Use Case:

ID	Constraint
CON-1	The system must support at least 1000 users simultaneously
CON-2	The calendar software must be coded in Python, JavaScript, HTML, and CSS
CON-3	Calendar must allow users to access the next 100 years

System Concerns for the Use Case:

ID	Concerns
CRN-1	We would need to establish an overall initial system structure.
CRN-2	Allocating work to the members of the development team.