Assignment 38

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1 Analysis Object Model (Static Model), including

1.1 identifying entity, boundary, and control objects

Tabel 1.1 entity objects next 1.2

Entity Object	Attributes &Associations	Definition
Account	• MaintainUsers • ManageAccount • AccountLogic • ManageCalendar • Event • name • email • username • password	An account holds the identification and personal information about a user.
Event	• Account • Alert • ManageEvent • Description • Date	The event entity describes an event in a calendar.
Alert	• Event • alertionDate • hasBeenSent	An alert holds the information for when a user should be notified about an specific event.

Tabel 1.2 control objects next 1.3

Control Object	Attributes &Associations	Definition
Login	• LoginView • AccountLogic	The login control object handles login and creation of an account requested from LoginView, these actions will be performed by the related AccountLogic.
Server	• Event	The server is a static online accessable control (webservice etc.) that runs endlessly and regurally checks and sends out alerts to users about upcomming events.
ManageCalendar	• Account • EventLogic • Calendar	ManageCalendar handles all actions done inside Calendar boundary. Any action that would involve an event change/retrival will be done though EventLogic
ManageAccount	• Account • ManageAccountView	ManageAccount handles all actions done inside ManageAccountView Boundary. Actions that accesses or changes an account will be done though AccountLogic.

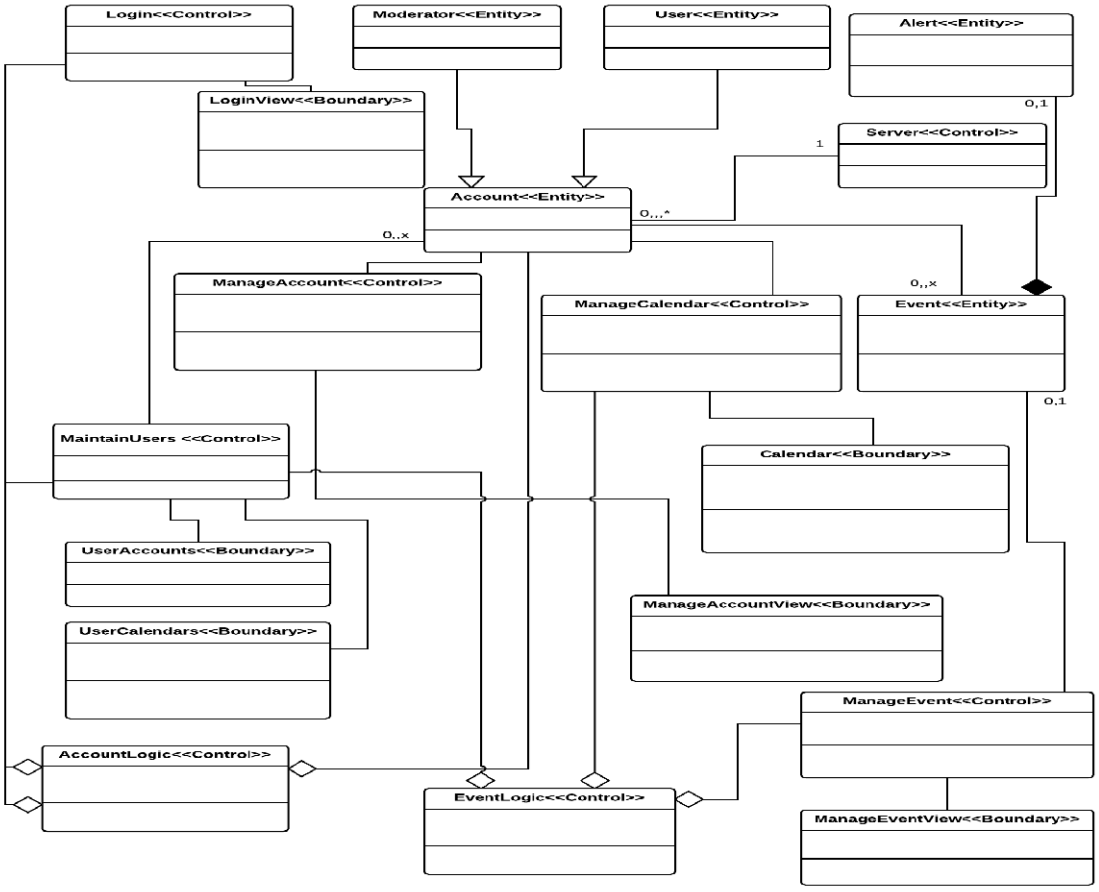
EventLogic	• MaintainUsers • ManageCalendar • ManageEvent	EventLogic performs any activity that involves getting and changing event entities.
AccountLogic	• ManageAccountView • Account	AccountLogic performs any activity that involves getting and changing Account entities.
MaintainUsers	• AccountLogic • EventLogic • UserAccounts • UserCalendar	MaintainUsers and its related boundaries are reserved to the moderator. It allows him to access and moderate accounts and their events.
ManageEvent	• ManageEventView • EventLogic • Event	ManageEvent handles activities done inside ManageEventView and uses eventlogic if an event has to be updated/added.

Tabel 1.3 boundary objects

Boundary Object	Attributes &Associations	Definition
LoginView	• Login	The login boundary allows the user a way to log into the system and also, to create a new account.
UserAccounts	• MaintainUsers	MaintainUsers boundary allows a moderator to manage (access,edit,remove) user' accounts
UserCalendars	• Account • EventLogic • Calendar	UserCalendars boundary allows a moderator to get a view over user' events and manage them.
ManageEventView	• ManageEvent	ManageEventView allows a user and moderator to create and edit events.
ManageAccountView	• MaintainUsers • ManageCalendar • ManageEvent	ManageAccountView allows a user to make changes to the attributes of his account, with the exception of username.
Calendar	• ManageCalendar	Calendar allows a user to view and manage his personal calendar.

1.2 Class Diagram

Abbildung 1: Analysis Object Model (Static Model) - class diagram.



2 Dynamic Model, including

2.1 mapping use cases to sequence Sequence Diagrams involving entity, boundary, and control objects

Abbildung 2: Sequence model for usercase "Edit personal information"

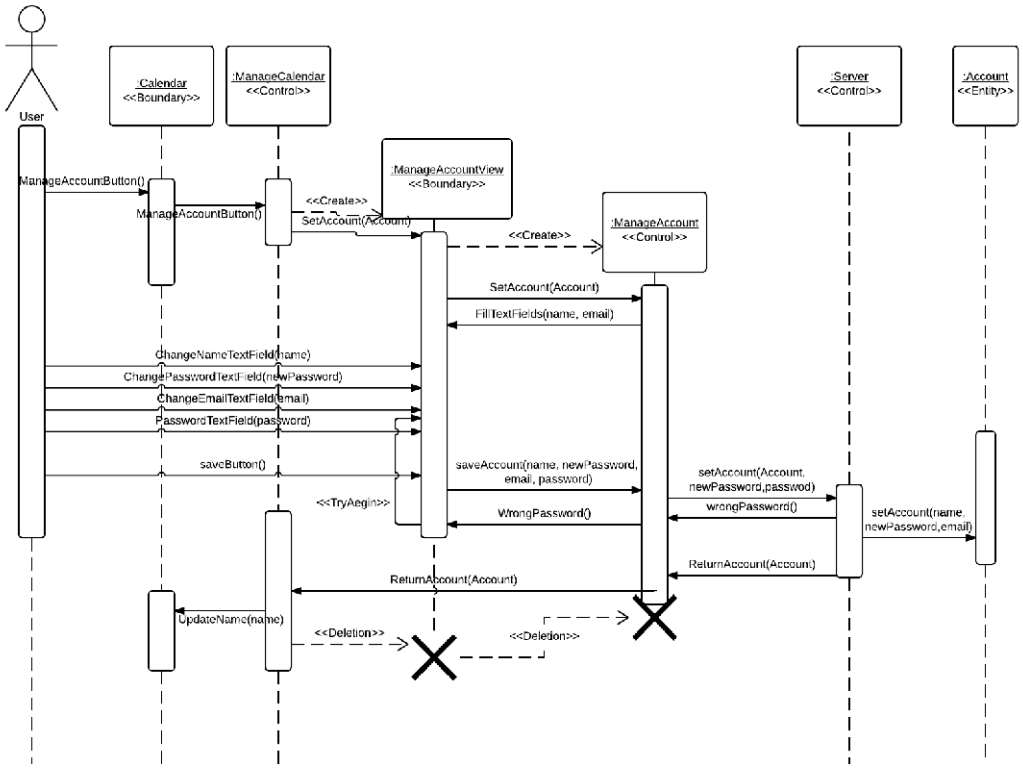


Abbildung 3: Sequence model for usercase "enable alert for event"

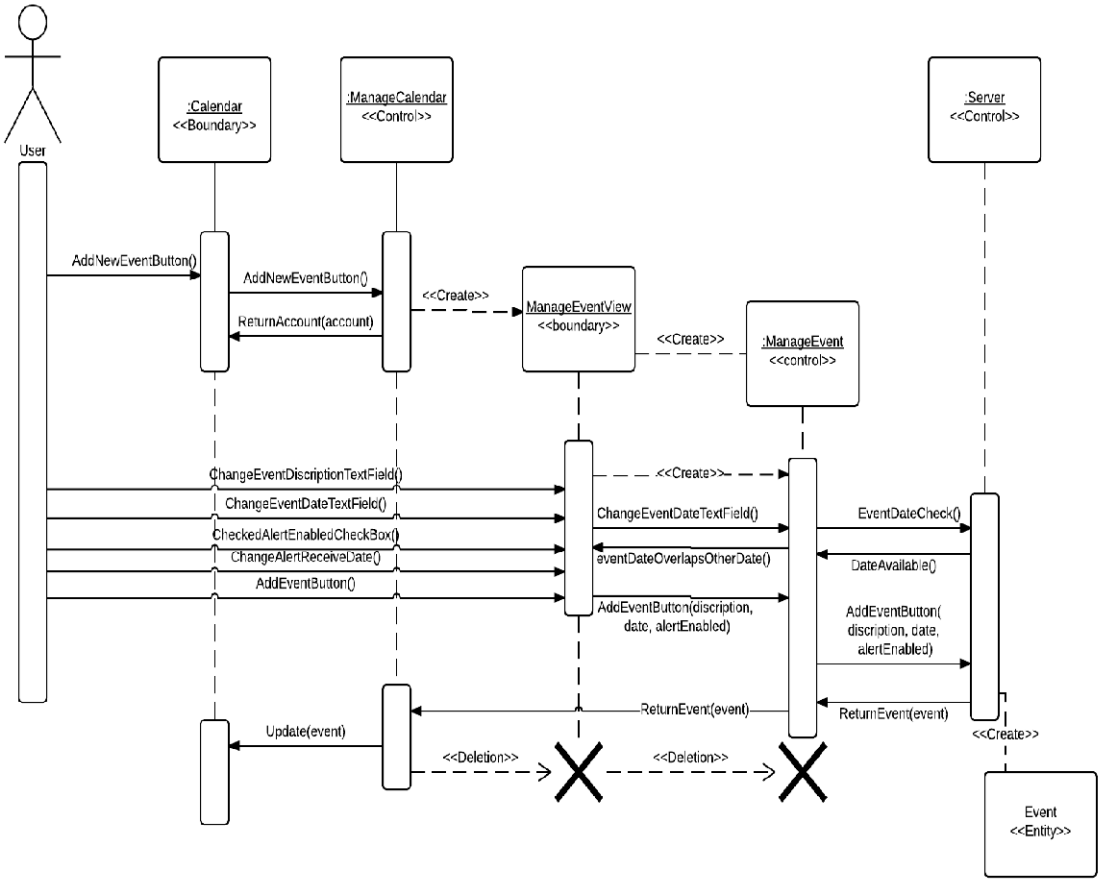
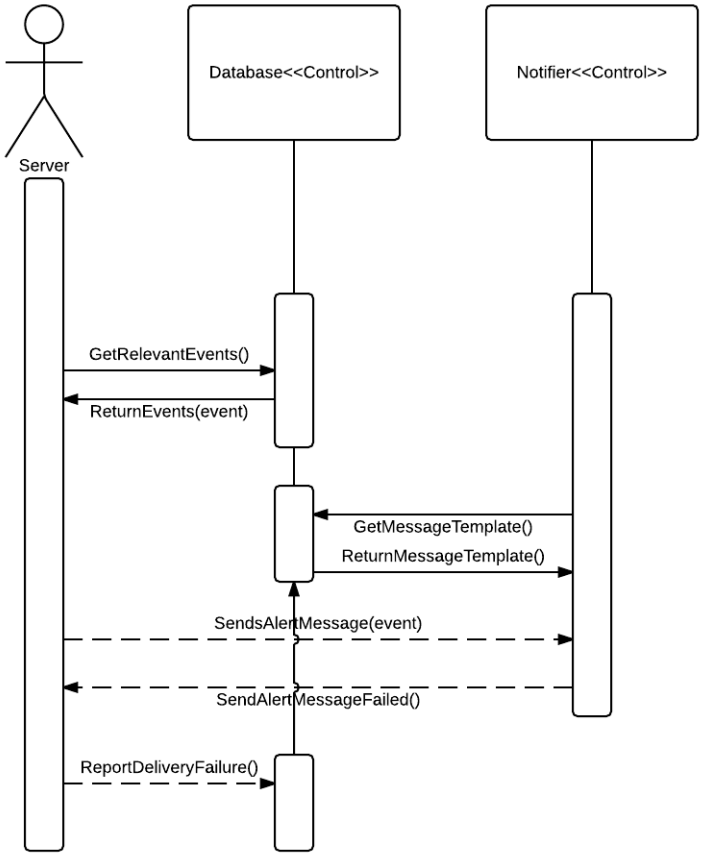


Abbildung 4: Sequence model for usercase "Sends a notification (event alert)"



2.2 modelling state-dependent behavior of individual objects using State Machine Diagrams

Abbildung 5: State Machine Diagram for "Send alert"

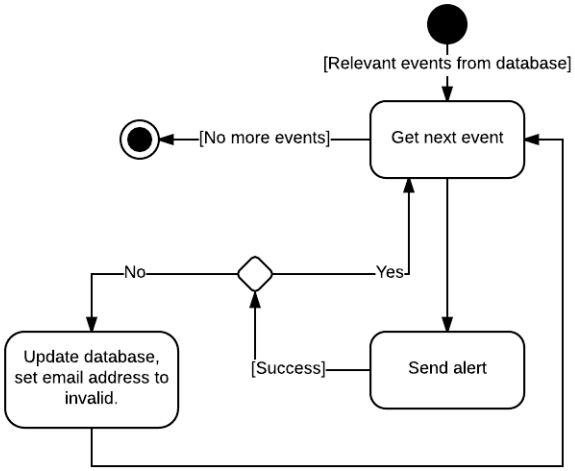


Abbildung 6: State Machine Diagram for "New event"