Event Management System

Team 1

CHAPTER 2

USE-CASE MODELING

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Explanation

Chapter 2 was about use-case modeling and it contains three primary topics which are: use-case glossary, use-case scenarios, and use-case diagram. Actor glossary was done in first chapter and it was the starting point for this chapter.

In use-case glossary this report took the processes in the actor glossary and wrote a meaningful description for each use-case to explain what does these use-cases contain & describe, also the report decided the participants actors and roles for each use-case as well, which mostly was primary business, primary system, external server. External receiver wasn't used much because of the project idea.

In use-case scenarios many things contained I explained some above, but the new ones are preconditions, postconditions, normal flow, and alternative flow. In preconditions this report decided the condition(s) that required before the process is start. In postconditions report wrote the results & what is expected to happen when this process is over. In normal flow report showed how the process should goes if nothing wrong occurred. In alternative flow report showed what is the second way the process will take if something wrong occurred, it's mostly used for showing the error messages.

In use-case diagram this report showed a detailed diagram that contains all use-case names and connecting them with each other using use-case relationships such as: association, extends, uses, depends on, inheritance.

I) Use-Case Glossary

Use-Case Name	Use-case Description	Participating Actors and Roles
Search for events	This use-case involves getting event's name, the venue, the event planner, as a result the member will be able to see the details of the event and the planned activities for it.	• Members (primary business) • Authentication Server (external server)
Send messages	This use-case describes the event of a member sending a messages to other members or to the admins through the network.	• Members (primary business) • Admins (primary system) • Communication Service (external server)
Post comment	This use-case describes the event of a member posting a comment to the network.	• Members (primary business) • Authentication Server (external server)
Schedule events	This use-case describes the event of a member adding the upcoming events of interest to the calendar, also contains viewing past events, current events, and upcoming events.	• Members (primary business) • Admins (primary system) • Schedule Tool (external server)
Share the event	This use-case describes the event of a member sharing the link and photos of the event to the network.	• Members (primary business) • Admins (primary system) • Authentication Server (external server)

Buy a ticket	This use-case involves getting member's name and surname, the age, and price of the chosen ticket and the conduct the payment transaction.	• Members (primary business) • Event planner (primary system) • Payment Gateway (external server)
Give evaluation	This use-case concerns both members and admins, members by providing their feedback and assessing their satisfactions. Email then sent to the event's owner to review the received feedback.	• Members (primary business) • Admin (primary business) • Volunteers (external receiver) • Authentication Server (external server)
Post events	This use-case describes the event of an admin posting events to the public through the network and giving more details about it such as the planned activities of it.	• Members (primary business) • Admins (primary system) • Authentication Server (external server)
Make announcements	This use-case describes the event of an admin posting announcements such as participants and updates to the public via the internet.	• Members (primary business) • Admins (primary system) • Authentication Server (external server)
Contacting participants	This use-case includes contacting the participants especially members and volunteers by the admin via the internet.	• Admin (primary system) • Members & Volunteers (primary business) • Authentication Server (external server)
Create survey	This use-case describes the event of an admin creating a survey or questionnaire for users to partake in.	• Admin (primary system) • Members & Volunteers (primary business) • Authentication Server (external server)

Add admins	This use-case describes the event of adding people as admins to the event by the event planner.	- Event planner (primary system) - Admins (primary business)
Create events by details	This use-case is about providing the full event details such as place, time, fees. Lastly estimating the required number of volunteers and contacting them.	- Event planner (primary system - Volunteers (primary business) - Authentication Server (external server)
Joining as volunteer	This use-case involves getting volunteer's name and surname, the age, and the reason of volunteering.	- Volunteers (primary business) - Admins (primary system) - Authentication Server (external server)
Contact the admins	This use-case describes the event of a volunteer sending a messages to an admin before the event asking about the instructions or after the event asking about the evaluation.	- Volunteers (primary business) - Admin (primary system) - Communication Service (external server)

II) Use-Case Scenarios

1	
Use-Case Name	Search for events
Primary Actors	• Members (primary business)
Other Participating Actors	• Authentication Server (external server)
Description	This use-case involves getting event's name, the venue, the event planner, as a result the member will be able to see the details of the event and the planned activities for it.
Preconditions	• User must have an account • User must search for an existing events
Post conditions	Details of the event are viewed by the member
Normal Flow	**Step1:** User log in to the account **Step2:** User goes to search bar and search for the event he/she is looking for **Step3:** User can enter more details as venue and event planner to decrease the results **Step4:** If the information entered are existed the member will be able to see the results
Alternative Flow	**Alt Step4:** If the member entered ambiguous/nonexistent information an error message will appear to the user

2	
Use-Case Name	Send messages
Primary Actors	• Members (primary business)
Other Participating Actors	• Admins (primary system) • Communication Service (external server)
Description	This use-case describes the event of a member sending a messages to other members or to the admins through the network.
Preconditions	• User must have an account • The other user must have an account too if it was a message between two users • The message must not exceed the letters limit for each message
Post conditions	The person who is receiving the message will get a notification from the member about the message
Normal Flow	**Step1:** User log in to the account **Step2:** User types in the specified area to send the message **Step3:** If the message does not exceed the limit of letters the message will be sent **Step4:** If the receiver is another member and he/she is allowing direct messaging, the message will be sent **Step5:** If the receiver is an admin, the message directly will be sent
Alternative Flow	**Alt Step3:** If the message exceeds the limit of letters the message won't be sent, and an error message will appear as "delete some letters" **Alt Step4:** If the user does not allow direct messaging the user will prompt with an error that the message wasn't sent

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Use-Case Name	Post comment
Primary Actors	• Members (primary business)
Other Participating Actors	• Authentication Server (external server)
Description	This use-case describes the event of a member posting a comment to the network.
Preconditions	• User must have an account • The comment must be within the letters limit
Post conditions	Comment text on the network is ready to be accessed by other users
Normal Flow	**Step1:** User log in to the account **Step2:** User selects to post new comment or comment on media **Step3:** User types the comment text in the specified area **Step4:** If comment text size is within limits, upload it and show confirmation message
Alternative Flow	**Alt Step4:** if the comment text size is over the limit, show error message and allow edit

4	
Use-Case Name	Schedule events
Primary Actors	• Members (primary business) • Admins (primary system)
Other Participating Actors	• Schedule Tool (external server)
Description	This use-case describes the event of a member adding the upcoming events of interest to the calendar, also contains viewing past events, current events, and upcoming events.
Preconditions	• User must have an account to see event's information • User must have calendar tool or something similar to add the events to it
Post conditions	Events on the calendar are ready to be viewed by the user Event's details are ready to be viewed by the user
Normal Flow	**Step1:** User log in to the account **Case 1:** User wants to add event to calendar: **Step2:** User search for the event that he/she want or interested in **Step3:** User copy the day and time for that event **Step4:** User opens the calendar tool and add the event on the selected day and time **Step5:** If the system finds that the day and time are available then the event will be set **Case 2:** User wants to see history of events: **Step2:** User opens the calendar, user can go to previous and upcoming months **Step3:** If there's previous or upcoming event the user will be able to see it
Alternative Flow	**Alt Case 1 Step2:** If the user entered incorrect information an error message will appear **Alt Case 1 Step5:** If the selected day and time are conflicted with other event the system will show an error message **Alt Case 2 Step3:** If there were no previous or upcoming events the user will see empty calendar

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Use-Case Name	Share the event
Primary Actors	• Members (primary business)
Other Participating Actors	• Admin (primary system) • Authentication Server (external server)
Description	This use-case describes the event of a member sharing the link and photos of the event to the network.
Preconditions	• User must have an account • Media must be within limit size • Links must be checked first
Post conditions	Media and links on the network are ready to be accessed by other users
Normal Flow	**Step1:** User log in to the account **Step2:** User drags the media file and the link to the designed area for sharing **Step3:** If the file is within size limit the file will be uploaded to the network **Step4:** The system will check the file and link for malicious content **Step5:** If the content is safe the other users can upload it
Alternative Flow	**Alt Step3:** If the file exceeds size limit show error message to the user **Alt Step4:** If the file or link contained malicious content an error message is shown to the user and the file and link are not uploaded

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Use-Case Name	Buy a ticket
Primary Actors	• Members (primary business) • Event planner (primary system)
Other Participating Actors	• Payment Gateway (external server)
Description	This use-case involves getting member's name and surname, the age, and price of the chosen ticket and the conduct the payment transaction.
Preconditions	• User must have an account • User must have a valid payment method
Post conditions	The ticket is ready to be used by user
Normal Flow	**Step1:** User log in to the account **Step2:** User search for the event that he/she want or interested in **Step3:** User goes to tickets and selects which one s/he wants and the quantity as well **Step4:** User choose the payment method and fills the required information **Step5:** The system checks the inputs **Step6:** If the inputs are all correct the amount is deducted, and ticket will be shown in screen **Step7:** Printing the ticket option is displayed knowing that the ticket on the website is sufficient to attend the event
Alternative Flow	**Alt Step2:** If the user entered incorrect information an error message will appear **Alt Step6:** If the inputs are wrong an error message will appear and payment will be declined

7	
Use-Case Name	Give evaluation
Primary Actors	• Members (primary business) • Admin (primary business)
Other Participating Actors	• Volunteers (external receiver) • Authentication Server (external server)
Description	This use-case concerns both members and admins, members by providing their feedback and assessing their satisfactions. Email then sent to the event's owner to review the received feedback.
Preconditions	• User must have an account • User must be admin if the evaluation was for the volunteers
Post conditions	Evaluation reports from members about the event and from admins about volunteer's behavior are on the system ready to be viewed
Normal Flow	**Step1:** User log in to the system **Case 1:** User log in as a member **Step2:** User goes to the events that finished recently and select 1 event and choose evaluation **Step3:** System checks if the user attended the selected event or not, if the user did an evaluation survey will be shown to the user **Step4:** User fills the survey and submits it and it will be sent to the admins **Case 2:** User log in as an admin **Step2:** User goes to the events that finished recently and select 1 event and choose evaluation **Step3:** Beside evaluation the event choice, the user can select evaluation the volunteer's choice **Step4:** User writes comments and opinions and submits it and it will be sent to the volunteer
Alternative Flow	**Alt Case 1 Step3:** If the user didn't attend the selected event an error message will appear as "Choose an event you have attended"

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Use-Case Name	Post events
Primary Actors	• Members (primary business)
Other Participating Actors	• Admins (primary system) • Authentication Server (external server)
Description	This use-case describes the event of an admin posting events to the public through the network and giving more details about it such as the planned activities of it.
Preconditions	• User must be admin
Post conditions	Event's information and content are on the system ready to be viewed by other users
Normal Flow	**Step1:** User log in to the system as an admin **Step2:** User goes to event list and creates new one with the basic info such as name and place **Step3:** User promotes the event by writing the details and activities of the event **Step4:** System ensures that the content is accurate and understandable **Step5:** If the content is clear it will be shared and visible to other users
Alternative Flow	**Alt Step2:** If the user entered repeated name an error message will appear as "This name is used" **Alt Step5:** If the content is not clear an error message will appear with showing the part(s) that not clear or written wrongly

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Use-Case Name	Make announcements
Primary Actors	• Members (primary business)
Other Participating Actors	• Admin (primary system) • Authentication Server (external server)
Description	This use-case describes the event of an admin posting announcements such as participants and updates to the public via the internet.
Preconditions	• User must be admin
Post conditions	All updates and announcements are on the system ready to be viewed by other users
Normal Flow	**Step1:** User log in to the system as an admin **Step2:** User goes to announcements section and select "post new announcements" **Step3:** User types in the specified area **Step4:** System ensures that the announcement is accurate and understandable **Step5:** If the announcement does not exceed the limit of letters the announcement will be posted
Alternative Flow	**Alt Step4:** If the announcement is not clear an error message will appear with showing the part(s) that not clear or written wrongly **Alt Step5:** If the announcement exceeds the limit of letters it won't be posted, and an error message will appear as "delete some words"

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Use-Case Name	Contacting participants
Primary Actors	• Members (primary business) • Volunteers (primary business)
Other Participating Actors	• Admin (primary system) • Authentication Server (external server)
Description	This use-case includes contacting the participants especially members and volunteers by the admin via the internet.
Preconditions	• User must be admin • Member must have an account • Volunteer must have an account
Post conditions	Members and volunteers will get a notifications from the admin about the messages
Normal Flow	**Step1:** User log in to the system as an admin **Step2:** User goes to messaging section **Step3:** User search for the member or volunteer by the name or id number of the account **Step4:** User types in the specified area to send the message **Step5:** System will check if the message does not exceed the limit of letters **Step6:** the message directly will be sent because it's sent by an admin
Alternative Flow	**Alt Step3:** If the admin wrote the name or id number wrongly an error message will appear as "Can't find user account with these information" **Alt Step5:** If the message exceeds the limit of letters the message won't be sent, and an error message will appear as "delete some letters"

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Use-Case Name	Create survey
Primary Actors	• Members (primary business) • Volunteers (primary business)
Other Participating Actors	• Admin (primary system) • Authentication Server (external server)
Description	This use-case describes the event of an admin creating a survey or questionnaire for users to partake in.
Preconditions	• User must be admin to be able to make surveys and questionnaires
Post conditions	The surveys and questionnaire have been created for other users to take part in
Normal Flow	**Step1:** User log in to the account **Step2:** User chooses the survey function **Step3:** User writes the survey **Step4:** Survey must be above 5 questions **Step5:** If survey is more than or equal the required amount of questions the survey is posted on the system through network
Alternative Flow	**Alt Step5:** If survey is less than 5 questions display error message for admin

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Use-Case Name	Add admins
Primary Actors	• Admin (primary business)
Other Participating Actors	• Event planner (primary system)
Description	This use-case describes the event of adding people as admins to the event by the event planner.
Preconditions	• User must be event planner to be able to make other accounts as an admins • An available account must be existed to make as an admin
Post conditions	The account that become an admin is activated and shown on the system as an admin
Normal Flow	**Step1:** User log in to the account **Step2:** User goes to settings and then to administration section **Step3:** User selects admins and selects make new account as an admin **Step4:** User enters the account information required such as name, ID account, phone number **Step5:** System checks if the ID account is matching with the given account **Step6:** If the ID number is correct the selected account will become an admin **Step7:** The admin account will be given all available features and commands for admins
Alternative Flow	**Alt Step6:** If the given ID account number is not matching with any account an error message will appear as "Error! Check the given ID number"

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Use-Case Name	Create events by details
Primary Actors	• Volunteers (primary business) • Event planner (primary system)
Other Participating Actors	• Authentication Server (external server)
Description	This use-case is about providing the full event details such as place, time, fees. Lastly estimating the required number of volunteers and contacting them.
Preconditions	• User must have an account • User must be event planner to be able to create and add the primary event's info
Post conditions	The event on the system is created and has the primary information, the estimated number of volunteers added, and everything is shown on the system through the network
Normal Flow	**Outside the system:** **Step1:** Event planner meets with event planners to decide on the event and estimate number of required volunteers according to their experience **Inside the system:** **Step1:** User log in to the account **Step2:** User goes to event list and creates ID number for a new event and send it to the admins **Step3:** Scenario 8 steps for creating the event **Step4:** User goes to participants list and selects adding volunteers **Step4:** User enters the estimated number of required volunteers
Alternative Flow	**Alt Step2:** If the ID number of the event is not correct or used an error massage will appear as "This ID number is not available"

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Use-Case Name	Joining as volunteer
Primary Actors	• Volunteers (primary business)
Other Participating Actors	• Admin (primary system) • Authentication Server (external server)
Description	This use-case involves getting volunteer's name and surname, the age, and the reason of volunteering.
Preconditions	• User must have an account • User must be volunteer
Post conditions	The account will be shown on the system as participating as a volunteer
Normal Flow	**Step1:** User log in to the account **Step2:** User Goes to participants list and select participate as a volunteer **Step3:** User answers the mandatory questions such as name, age, and the reason of volunteering **Step4:** System sends the answers to the admin **Step5:** If admin saw age is suitable, reason is convincing, and there is still places available then admin will make account as a volunteer
Alternative Flow	**Alt Step5a:** If age is not suitable admin sends "Age is not suitable" **Alt Step5b:** If reason is not convincing admin sends "Reason is not convincing" **Alt Step5c:** If there is no more available places admin sends "There is no more available places"

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Use-Case Name	Contact the admins
Primary Actors	• Volunteers (primary business) • Admin (primary system)
Other Participating Actors	• Communication Service (external server)
Description	This use-case describes the event of a volunteer sending a messages to an admin before the event asking about the instructions or after the event asking about the evaluation.
Preconditions	• User must have an account • User must be volunteer • User must have participated in event if s/he is asking about evaluation
Post conditions	Admin will receive a message from volunteer on the system through the network
Normal Flow	**Step1:** User log in to the account **Step2:** User goes to messaging box and selects whether the reason is instructions or evaluation **Case 1:** User selects instructions **Step3:** User types in the specified area to send the questions to the FAQ specialists **Step4:** System checks the questions then send it to admins if it's fine **Case 2:** User selects evaluation **Step3:** User types in the specified area to ask for an evaluation for his/her last event participating **Step4:** System checks if the user has participated in last event then his/her request will be sent to the admin who is responsible for that event
Alternative Flow	**Alt Case 1 Step4:** If the questions contain unclear/offensive/etc. content the questions won't be send and error message will appear **Alt Case 2 Step4:** If the volunteer didn't participate in last event an error message will appear and the request will be rejected

III) Use-Case Diagram