NTSS Iteration1 Document

Version 1.0

by Team 1

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Revision history	Date	Comments
V1	9th Oct 2018	Initial Draft

Requirements

R1 The system shall allow a potential user to create an online account identified by a valid email address.

R1.1 The system shall require the user to specify the account type (event organizer, exhibitor, speaker, or observer). Different types of account shall have different privileges.

R1.2 The system shall send a temporary password to the email address. The temporary password must comply to commonly adopted password security rules.

R1.3 The system shall require the user to change the temporary password at the first login. The new password must comply to commonly adopted password security rules.

R2 The system shall allow an event organizer to submit an event proposal using an event proposal form with fields that describe the event.

R2.1 Upon submission, the system shall generate a payment slip to be sent by the event organizer along with the payment to NTSS.

R2.2 Upon reception of the payment for an event proposal,

R2.2.1 the system shall change the status of the event proposal to "Pending Review" from "Submitted,"

R2.2.2 the system shall email notify the event organizer that the payment has been received and the proposal is pending review.

R3 The system shall allow an event organizer to cancel an event with a 15% cancellation charge.

R4 The system shall allow an event organizer to edit a "Submitted" or "Pending Review" proposal without charge.

R5 The system shall allow an event organizer or NTSS staff to view an event proposal.

R6 The system shall allow an NTSS staff to evaluate an event proposal and enter feedback and an acceptance decision of either "Accepted" or "Rejected." If "Rejected," then the staff must also provide feedback explaining why the proposal is rejected.

R7 The system shall allow an exhibitor to submit a booth lease request.

R7.1 The system shall display a floor plan with available booths, their sizes and leasing prices. The booth sizes are large, medium, and small, each of which is specified by width and length.

R7.2 The system shall allow the exhibitor to select one or more available booths to be leased.

R7.3 The system shall generate a summary and total payment slip so that the exhibitor can print and send along with the payment to NTSS.

R7.4 When the payment is received, the system shall change the status of the request to pending review and notify the exhibitor of the status change.

R8 The system shall allow an exhibitor to withdraw a booth lease request with a 10% cancellation charge.

R9 The system shall allow an exhibitor or NTSS staff to view a booth lease request.

R10 The system shall allow an NTSS staff to evaluate a booth lease request.

R10.1 The system shall allow an NTSS staff to enter "Accepted" or "Rejected" decision.

R10.2 If the decision is Rejected, then the system shall require the NTSS staff to enter feedback explaining why the lease request was rejected.

R10.3 The system shall change the status of the request accordingly and notify the exhibitor of the change in request status.

R10.4 The system shall change the status of a booth to "unavailable" once it is leased

out.

R11 The system shall allow a potential participant to register for an event.

R11.1 The system shall allow the participant to select from a list of event of her/his interest.

R11.2 The system shall allow a participant to register for one or more events.

R11.3 The system shall generate a payment slip showing a summary and the total payment.

R11.4 The system shall allow the participant to print the payment slip to be sent together with the payment.

R11.5 Once the payment is received, the system shall change the participants' registrations to "Paid" and notify the registering participant of this change.

R12 The system shall allow a registering participant to cancel a registration without charge one week before the event and with a 10% cancellation charge afterwards.

R13 The system shall allow an NTSS staff to specify a floor plan with predefined sizes.

R14 The system shall allow payment by credit card, cashier check, personal check, money order, or PayPal.

Domain Model

Brainstorming

The National Trade Show Services [1](NTSS) is a service provider[9] that helps business customers[1] create, promote, organize, and run national and international trade shows. Business customers contact[3] NTSS for the services they need. Creating[3] a trade show[1] involves the design[1] for the trade show, including[7] professional services ranging from selection[3] of a theme[1] and a slogan[1] to location[1] and duration[1]. Promoting[3] a trade show includes[6] advertisement[3] activities. Organizing[3] a trade show includes all[5] activities before the trade show except[5] creation and promotion. For example, inviting[3] speakers[1], registering[3] participants[1] and exhibitors[1]. Running[3] a trade show is the activity[1] of on site registration[3], setting up[3] the booths[1], conference rooms[1] for seminars[1], reception[1], and distributing[3] trade show materials[3]. The NTSS creates[3] an account[1] for each[5] customer to record[3] service charges[1], payments[1] received, and maintain[3] the account balances[1].

A trade show can be regarded as an event[1]. For example, the 2008 Consumer Electronics Show[1] took place in the Las Vegas[1] Convention Center[1] during January 7-10, 2008 and the 2008 MacWorld Conference[1] took place at the Moscone Center[1], 747 Howard Street, San Francisco, CA 94103[1] during January[1] 14-18, 2008. An event has[6] an organizer[1], which can be a person[1] or an organization[1]. For example, the CES was organized by the Consumer Electronics Association[1] while the MacWorld[1] was organized by Apple, Inc[1]. An event has[6] contact information and possibly a website[1] that provides[3] further information about the event. An event can belong[6] to one or more[5] predefined domains[1] For example, the CES and MacWorld[1] are belong to both[5] Technology[1] and Consumer Electronics[1]. The list[1] of predefined domains[2] can change from time to time because new domains need be added[3] and outdated domains need be removed[3].

A trade show is attended[3] by different types of participants[1] including the event organization staff, the invited and/or selected speakers[1], exhibitors[1], and observers[1]. Except[5] the event organization staff and the event organizer, all[5] participants must register[3] to attend a trade show event. The registration charges[3] a fee, which is different for different trade show event. The event organization staff creates[3], prepares[3] and runs[3] the event. The invited speakers are famous figures in the domain who were invited to give a keynote address at the event. The selected speakers are invited to speak[3] at the event based on the evaluation[3] of their proposals. The proposals are usually reviewed[3] by a committee of reviewers[1], who are experts in the domain and willing to help. The status of a proposal[2] includes pending review, accepted, and rejected[5]. The exhibitors come to the trade show to exhibit[3] their products or services. The exhibitors have[6] to pay for the booths depending on the size of the booth [2], e.g., large, medium, or small[5]. Booths are requested[3] and rented[3] for the whole duration of the event [2]. Finally, the observers come to visit[3] the trade show for various purposes.

Classification of Brainstorming

Brainstorming List	Classification Result	Rule
National Trade Show Services [1](NTSS)	(C) National Trade Show Service	1(a)
Business customers[1]	(C) Business Customer,NTSS	1(a)
contact[3]	(AS) Contact NTSS	3
creating[3]	(AS) Creating a trade show	3
trade show[1]	(C) Trade Show	1(a)
design[1]	(A) Design for the trade Show	1(e)
theme[1]	(A) Theme for the trade show	1(e)
slogan[1]	(A) Slogan for the trade show	1(e)
location[1]	(A) Location for the trade show	1(e)
duration[1]	(A) Duration for the trade show	1(e)
including[7]	(AG) Design includes professional services	7
selection of[3]	(AS) Selection of (theme)	2
promoting [3]	(AS) Promoting the trade show	3
advertising[3]	(AS) Advertising a trade show	3
organizing[3]	(AS) Organizing a trade show	3
all..except[5]	[Creating and Promoting Trade show]	5(b)
Inviting[3]	(AS) Inviting Speakers	3
registering[3]	(AS) Registering participants	3
participants[1]	(C) Participants	1(a)
Invited speakers[1]	(C) With Participants	1(b)
Selected speakers[1]	(C) With Participants	1(b)
exhibitors[1]	(C) With Participants	1(b)
observer[1]	(C) With Participants	1(b)
event organization staff[1]	(C) Event organization staff	1(a)
running[3]	(AS) Running a trade show	3
on-site registration[3]	(C) On-site registration	3
setting-up[3]	(AS) Setting-up booths	3
booths[1]	(C) Booths	1(a)
conference rooms[1]	(C) Conference rooms	1(a)
seminars[1]	(A) Seminars	1(e)
reception[1]	(C) Reception	1(a)
distributing[3]	(AS) distributing(trade show materials)	3
trade show materials	(TBD)	
account[1]	(C) Account	1(a)
each[5]	[1..1]	5(b)
record[3]	(AS) record(service charges)	3
service charges[1]	(A) Service charges	1(e)
payments[1]	(AC) Payments	1(c)

Payment by card/cheque	(AS)Payment method	1(e)
account balance[1]	(A) Account Balance	1(e)
maintain[3]	(AS) maintain	3
event[1]	(C) Event	1(a)
has[6]	(AG) has organizer	6(a)
organizer[1]	(C) Organizer/Business Customer	1(a)
belong to[8]	(AG) belong to domain	6(a)
one or more[5]	[1..n]	5(b)
domains[1]	(C) Domains	1(a)
added[3]	(AS) added	3
removed[3]	(AS) removed	3
attended[3]	(AS) attended	3
participants[1]	(C) participants	1(a)
except[5]	[..]	5(b)
all[5]	[..]	5(b)
register[1]	(C) register	1(a)
creates[3]	(AS) creates the event	3
prepares[3]	(AS) prepares the event	3
runs[3]	(AS) runs the event	3
speak[3]	(AS) speak at event	3
evaluation[3]	(AS) evaluation of proposal	3
proposal[1]	(AC) proposal	1(C)
reviewed[3]	(AS) by committee reviewers	3
committee of reviewers[1]	(AS) with participants	1(b)
status[1]	(A) status	1(e)
of proposal[2]	(A) status of a proposal	2(b)
pending review[4]	(V) pending review	4
accepted[4]	(V) accepted	4
rejected[4]	(V) rejected	4
exhibit[3]	(AS) exhibit products	3
have to[6]	(AG) have to pay	6(a)
size[1]	(A) size	1(e)
size of[2]	(A) size of booth	2(b)
large[4]	(V) large	4
medium[4]	(V) medium	4
small[4]	(V) small	4
requested[3]	(AS) booth requested	3
rented[3]	(AS) booth rented	3
duration	(A) duration	1(e)
duration of	(A) duration of the event	2(b)
visit	(AS) visit the trade show	3
	(I) ISA (Participants, business customer, speaker, exhibitor, observer)	9

Domain model of NTSS
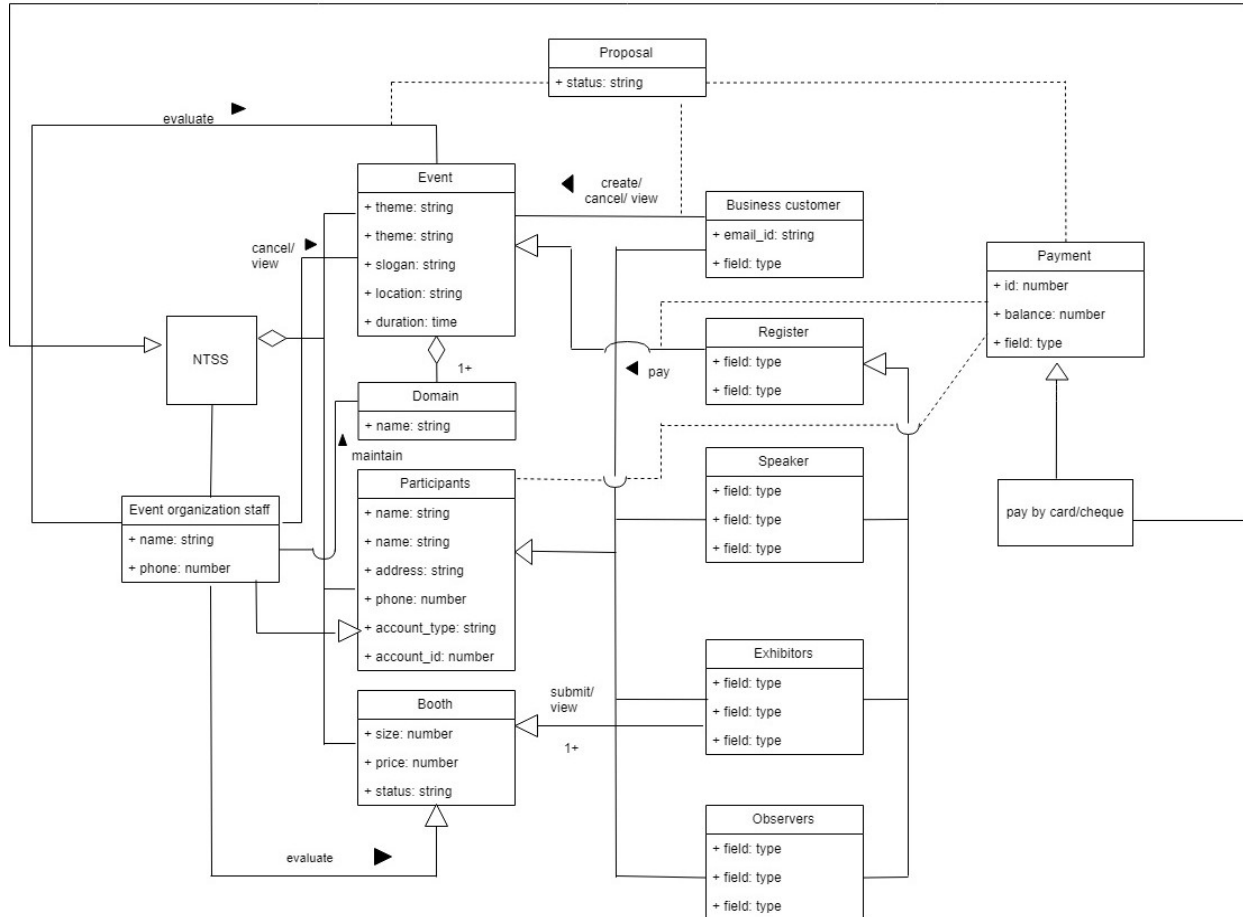
Use Cases

Use Case Analysis

No.	Requirement Number	Verb-Noun Phrase	Is it a business process?	Does it begin with an actor?	Does it end with the actor?	Does it accomplish a business task for the actor?	Is it a use case?
1	R1	create an online account	Y	Y	Y	Y	Y
		specify the account type	N	Y	Y	Y	N
		send a temporary password	Y	N	Y	Y	N
		comply to password security standard	N	N	N	N	N
		change the temporary password	N	Y	Y	Y	N
		allow an event organizer	N	N	N	N	N
2	R2	submit an event proposal	Y	Y	Y	Y	Y
		using an event proposal form	N	N	N	N	N
		generate a payment slip	N	N	Y	N	N
		reception of the payment	N	Y	Y	Y	N
		change status of event proposal	Y	N	Y	Y	N
		notify the event organizer	Y	N	Y	Y	N
3	R3	cancel an event	Y	Y	Y	Y	Y
4	R4	edit a proposal	Y	Y	Y	Y	Y
5	R5	view an event proposal	Y	Y	Y	Y	Y
6	R6	evaluate an event proposal	Y	Y	Y	Y	Y
		enter feedback	N	Y	Y	N	N
		accept decision / update status	N	Y	Y	Y	N
7	R7	submit a booth lease request	Y	Y	Y	Y	Y
		display a floor plan	Y	N	Y	Y	N
		select available booth	N	Y	Y	Y	N
		generate a summary & payment slip	Y	N	Y	Y	N
		print and send payment slip	N	Y	Y	N	N
		change the status of booth lease request	Y	N	Y	Y	N
		notify the exhibitor	Y	N	Y	Y	N
8	R8	withdraw a booth lease request	Y	Y	Y	Y	Y
9	R9	view a booth lease request	Y	Y	Y	Y	Y
10	R10	evaluate a booth lease request	Y	Y	Y	Y	Y
		enter decision for booth lease request	N	Y	Y	Y	N
		enter feedback for booth lease request	N	Y	Y	Y	N
		change the status of the request	Y	N	Y	Y	N
		notify the exhibitor	Y	N	Y	Y	N
		change the status of booth	Y	N	Y	Y	N
11	R11	register for an event	Y	Y	Y	Y	Y
		select from a list of events	N	Y	Y	Y	N
		generate a payment slip for registration	Y	N	Y	Y	N
		display a summary	Y	N	Y	Y	N
		print the payment slip	N	Y	Y	Y	N
		received payment for registration	Y	N	Y	Y	N
		change the registration status	Y	N	Y	Y	N
		notify the participants	Y	N	Y	Y	N
12	R12	cancel registration for an event	Y	Y	Y	Y	Y
13	R13	specify floor plan	Y	Y	Y	Y	Y
14	R14	pay by credit card or PayPal	Y	Y	Y	Y	Y

Abstract Use Cases

UC1. create an online account (Actor: User, System: NTSS/Registration)
UC2. submit an event proposal (Actor: Event organizer, System: NTSS/Proposal)
UC3. cancel an event (Actor: Event organizer, System: NTSS/Event)
UC4. edit a proposal (Actor: Event organizer, System: NTSS/Proposal)
UC5. view an event proposal (Actor: Event organizer, staff, System: NTSS/Proposal)
UC6. evaluate an event proposal (Actor: staff, System: NTSS/Proposal)
UC7. submit a booth lease request (Actor: Exhibitor, System: NTSS/Booking)
UC8. withdraw a booth lease request (Actor: Exhibitor, System: NTSS/Booking)
UC9. view a booth lease request (Actor: Exhibitor, Staff, System: NTSS/Booking)
UC10. evaluate a booth lease request (Actor: staff, System: NTSS/Booking)
UC11. register for an event (Actor: User, System: NTSS/Event)
UC12. cancel registration for an event (Actor: User, System: NTSS/Event)
UC13. specify floor plan (Actor: staff, System: NTSS/Booking)
UC14. pay by credit card or PayPal (Actor: User, System: NTSS/Payment)

High Level Use Cases

UC1.Create an online account
TUCBW user clicks on the "Create account" link on the Login page.
TUCEW user sees the "Registration successful" or "Error" message.

UC2. Submit an event proposal
TUCBW event organizer enters detail on an event proposal form with fields that describe the event.
TUCEW event organizer clicks the submit button on the page to submit an event proposal.

UC3. Cancel an event
TUCBW event organizer clicks the "Cancel Event" link of an event.
TUCEW event organizer is shown a message on the page stating that the event has been cancelled.

UC4. Edit a proposal
TUCBW event organizer clicks the "Edit" link of a proposal in the NTSS page.
TUCEW event organizer can edit the fields of a proposal in the NTSS page.

UC5. View a proposal
TUCBW event organizer clicks the "View" link of a proposal in the NTSS page.
TUCEW event organizer can view the details of a proposal in the NTSS page.

UC6. Evaluate an event proposal
TUCBW staff clicks on a proposal displayed on the screen and changes status.
TUCEW staff sees the updated status.

UC7. Submit a booth lease request
TUCBW exhibitor enters details for booth lease request.

TUCEW exhibitor is shown a message that lease request was submitted.

UC8. Withdraw a booth lease request
TUCBW exhibitor clicks on "Withdraw booth lease" link.
TUCEW exhibitor is shown a message that booth lease is withdrawn.

UC9. View a booth lease request
TUCBW an exhibitor or staff clicks on "View Booth Request" link on the booking page.
TUCEW an exhibitor or staff sees the tabular listing of Booth lease requests.

UC10. Evaluate a booth lease request
TUCBW staff clicks on "Evaluate Request" link of a booth lease request in the tabular listing of booth lease requests.
TUCEW staff sees the updated status and a feedback if provided.

UC11. Register for an event
TUCBW a user clicks on "Register for Event" link on registration page.
TUCEW a user sees the tabular listing of events.

UC12. Cancel registration
TUCBW a user clicks on "Cancel Registration" link on registration page.
TUCEW a user is shown an alert that his/her registration has been cancelled.

UC13. Specify floor plan
TUCBW staff clicks on "Floor Plan" link on the booking page
TUCEW staff selects his floor plan based on the predefined sizes.

UC14. Payment by PayPal or credit card
TUCBW a user clicks on "Payment by PayPal or credit card" link on the payment page
TUCEW a user is shown a "Payment successful" or "Error" message.

Subsystems identified by actors

NTSS/Registration, Actor: User, Event Organizer
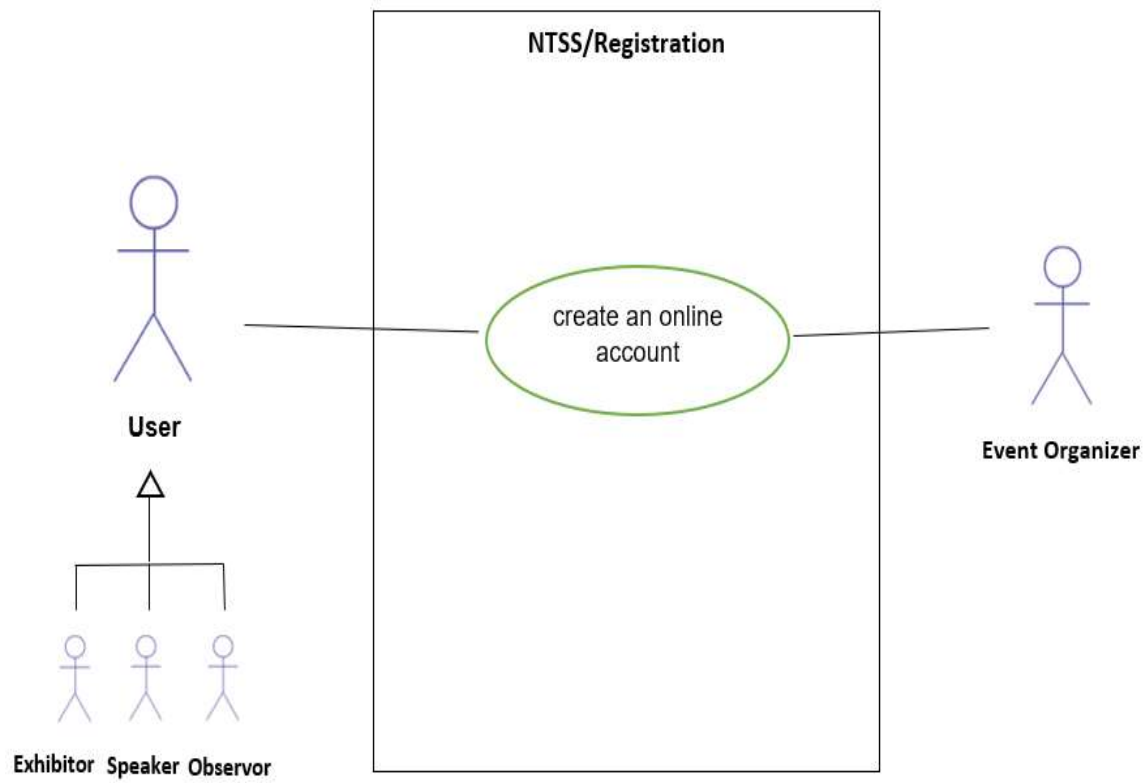UC1. create an online account

NTSS/Proposal, Actor: Event organizer, Staff
UC2. submit an event proposal
UC4. edit a proposal
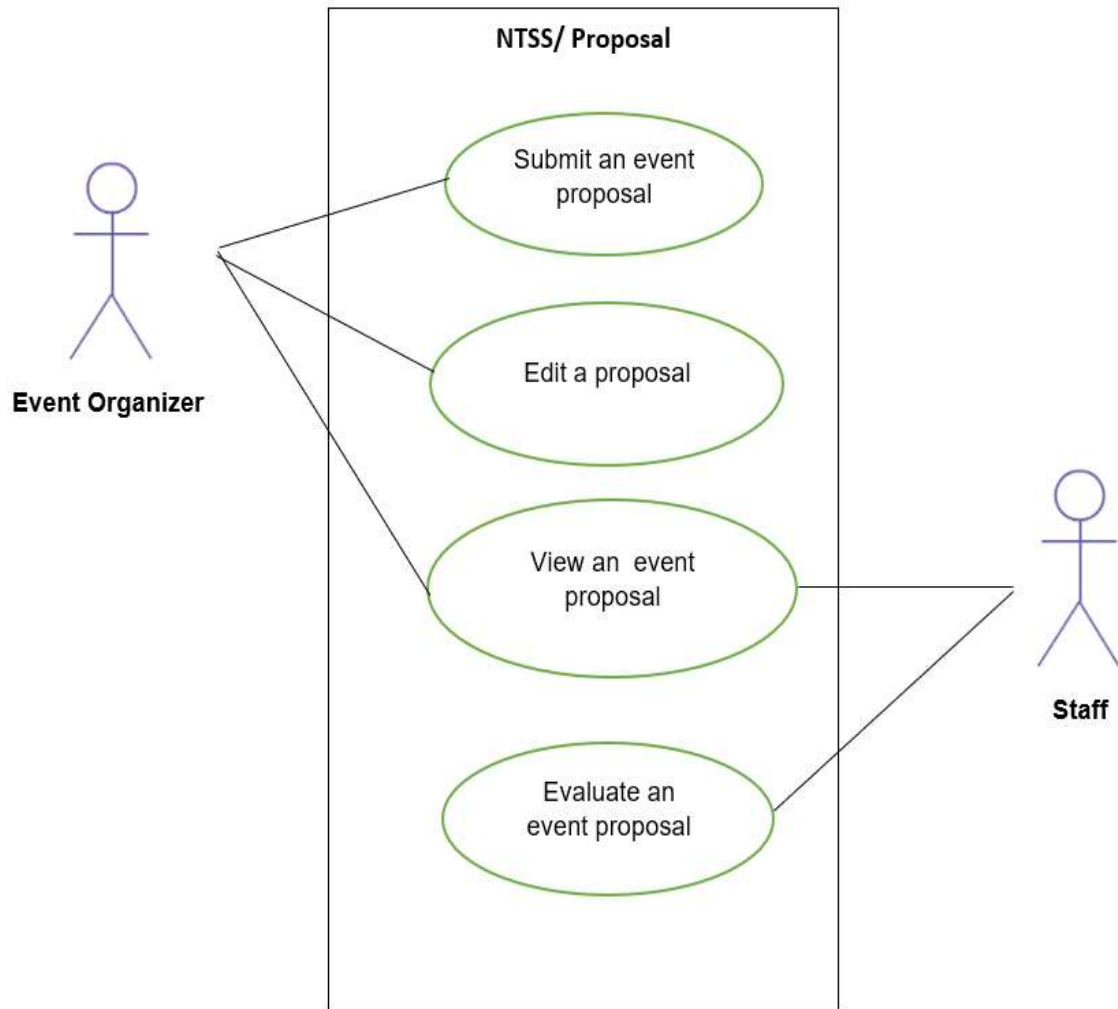UC5. view an event proposal
UC6. evaluate an event proposal

NTSS/Event, Actor: Event organizer, User
UC3. cancel an event
UC11. register for an event
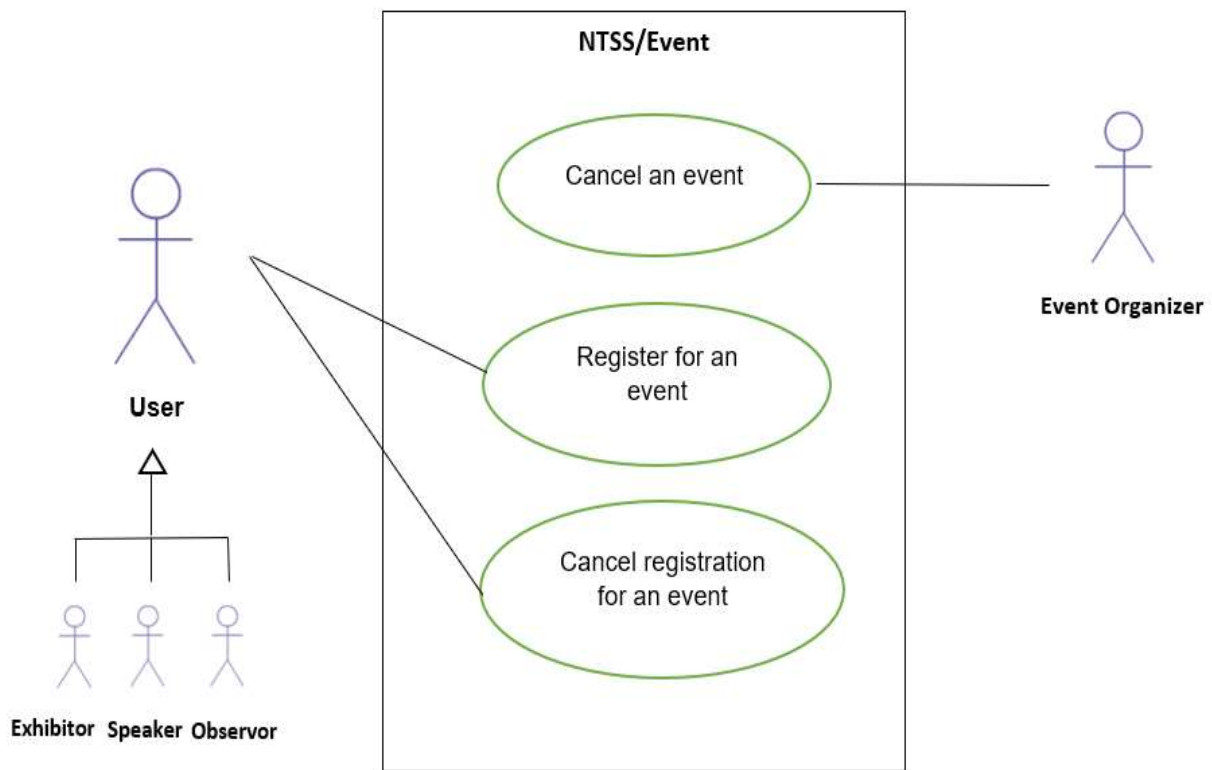UC12. cancel registration for an event

NTSS/Booking, Actor: Exhibitor, Staff
UC7. submit a booth lease request
UC8. withdraw a booth lease request
UC9. view a booth lease request
UC10. evaluate a booth lease request
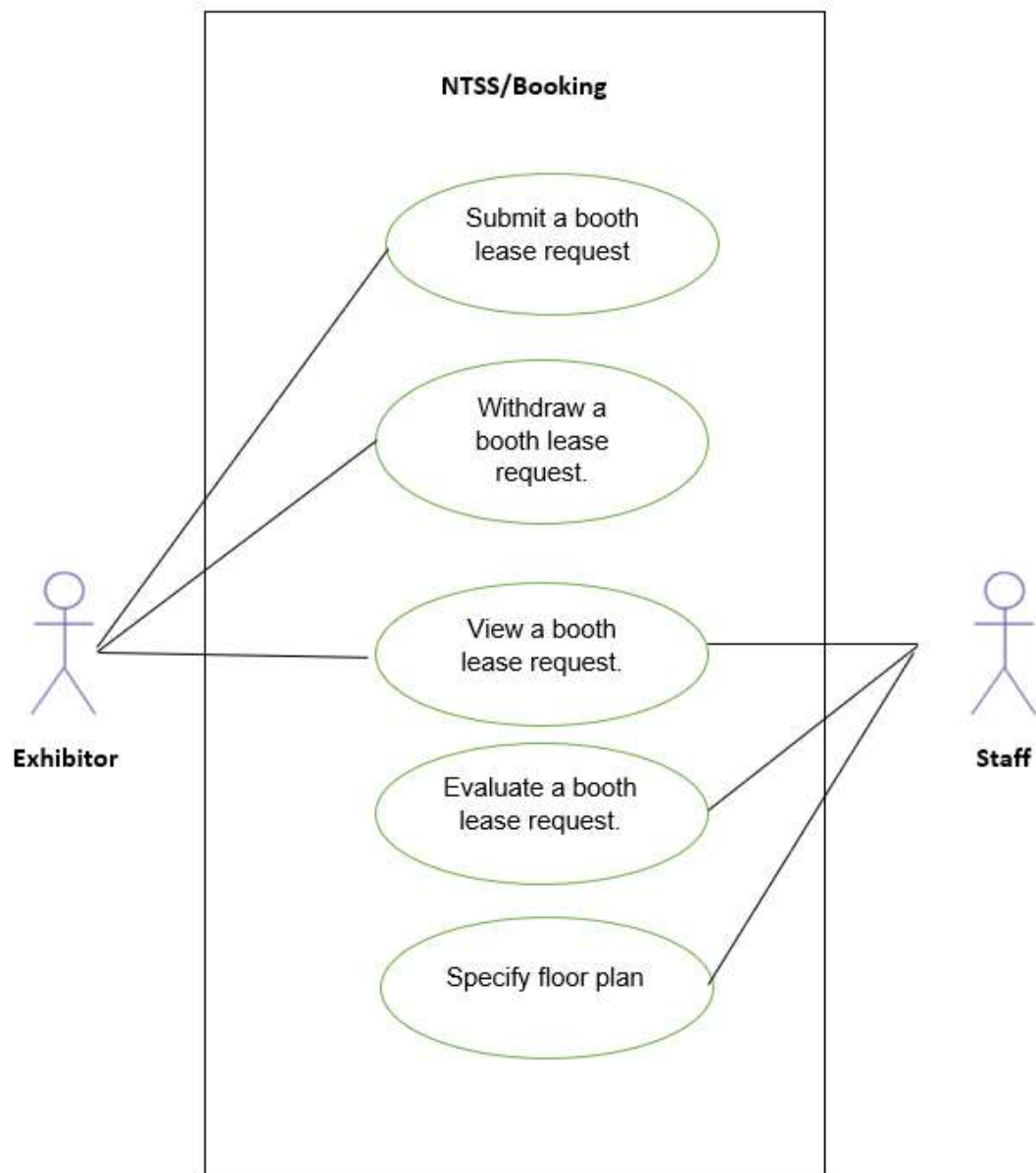UC13. specify floor plan

NTSS/Payment, Actor: Event organizer, User
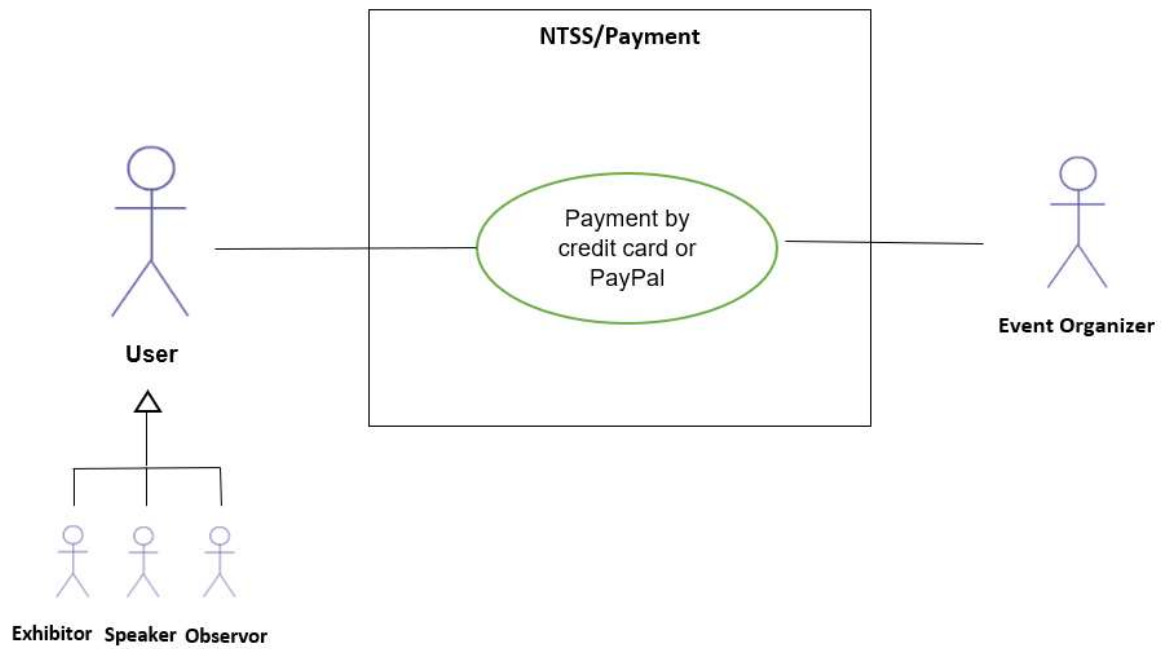UC14. Pay by credit card or PayPal

Use Case Diagrams

NTSS/ Proposal

Submit an event proposal

Edit a proposal

View an event proposal

Evaluate an event proposal

Event Organizer

Staff

NTSS/Event

Cancel an event

Register for an event

Cancel registration for an event

User

Exhibitor Speaker Observor

Event Organizer

NTSS/Booking

Submit a booth lease request

Withdraw a booth lease request.

View a booth lease request.

Evaluate a booth lease request.

Specify floor plan

Exhibitor

Staff

Expanded Use Cases

UC1: create online account	
Precondition	
Actor: User	System: NTSS/Registration
	0. System displays home page.
1. **TUCBW** user clicks on the "Create Account" link.	2. System displays a page requesting for email address and account type from the user.
3. User enters a valid email address and specifies the account-type and clicks on the "Create account" Button.	*4. System displays a "Created account successfully and the password is sent via email "message.
5. **TUCEW** user sees the "Created account successfully and the password is sent via email "message.	
Postcondition	

UC2: Login	
Precondition	
Actor: User	System: NTSS/Registration
	0. System displays the home page.
1. **TUCBW** user clicks on the Login link on the homepage.	2. System displays the login page.
3. User enters the email address, password, accountType and clicks the Login button."	*4. System displays welcome or error page.
5. **TUCEW** user sees the welcome page or error page.	
Postcondition	

UC3: submit an event proposal	
Precondition	
Actor: Event Organizer	System: Proposal
	0. System displays the Submit an Event Proposal link on Proposal page
1. **TUCBW** event organizer clicks on submit an event proposal link	2. System displays the event proposal form requesting theme, location, slogan text and duration
3. event organizer enters the information and clicks continue	*4. System displays Payment options page
5. event organizer selects payment option and makes payment	6. System displays payment successful and redirects to proposal page with success/error message.

7. **TUCEW** event organizer is shown a message that event proposal was successfully submitted or the error message	
Postcondition	

UC4: evaluate an event proposal	
Precondition	
Actor: Staff	System: Proposal
	0. System displays the Evaluate Proposal link on staff homepage
1. **TUCBW** staff clicks on Evaluate Proposals link on the screen.	2. System displays list of submitted event proposals
3. staff selects the proposal to evaluate	*4. System displays information associated with the event proposal
5. staff evaluates and updates the status of proposal to "Accepted/Rejected" accordingly, and enters feedback if status is "Rejected"	6. System stores the status of proposal and displays successful or error message.
7. **TUCEW** staff sees the updated status of event proposal	
Postcondition	

Sequence Diagram

Scenarios

UC1: Create Online Account

3. User enters an email address and specifies the account type and clicks on the "Create account" Button.

4.1) Account GUI sends the account information to the Account Controller.

4.2) Account controller creates a blank msg.

4.3) Account controller gets User object from the DBMgr.

4.4) Account controller verifies email address with User object.

4.4.1) If the email address is valid

4.4.1.1) the Account controller generates a temporary password.

4.4.1.2) the Account controller saves an account object with DBMgr.

4.4.1.2.1) DBMgr saves account object assigned with unique ID.

4.4.1.3) the Account controller appends "Created account successfully" to msg.

4.4.2) else

4.4.2.1) the account controller appends "Enter valid email address" to msg.

4.5) The Account controller returns msg to the Account GUI.

4.6) Account GUI displays msg to user.

UC2: Login

3.User fills in username, password, accountType and clicks Login button.

4.1) Login GUI sends username, password & accountType to Login Controller.

4.2) Login Controller gets User object using user name from DBMgr.

4.3) DBMgr returns User object to Login Controller.

4.4) Login Controller verifies password with User.

4.5) User object returns result to Login controller.

4.6) Login controller returns result to Login GUI.

4.7) if login successful.

4.7.1) Login GUI displays welcome page.

4.7.2) else

4.7.2.1) Login GUI displays error msg.

UC3: submit an event proposal

3. Event organizer enters the information and clicks continue

4.1 Proposal GUI sends information collected in event proposal form as Proposal object to Proposal Controller

4.2 Proposal Controller creates a blank message.

4.3 Proposal Controller saves Proposal object & its status as "Submitted" with the DBMgr.

4.4 DBMgr returns Proposal object assigned with unique id to Proposal Controller

4.5 Proposal controller sends Proposal object to Payment Controller

4.6 Payment controller receives Proposal object and sends Payment object with payment options to Proposal GUI

4.7 Proposal GUI sends information collected for payment option as Payment object to Payment Controller.

4.8 Payment Controller processes payment information using Payment Object

4.9 Payment Controller saves Payment object to DBMgr

5.0 DBMgr returns Payment object assigned with unique payment id to Payment Controller

5.1 if payment is successful

5.1.1 Payment Controller updates status of the Proposal object to "Pending review" and returns Proposal Object to Proposal Controller

5.2 else

5.2.1 Payment controller updates status in the Proposal object to "Error" and returns Proposal Object to Proposal Controller

5.3 Proposal Controller receives Proposal Object from Payment Controller

5.4 If status of Proposal object is Pending Review

5.4.1 Proposal controller append "Proposal submitted successfully" to msg

5.5 else

5.5.1 Proposal controller append "Proposal submission failed" to msg

5.6 Proposal controller saves object to DBMgr

5.7 DBMgr returns status to Proposal controller

5.8. The Proposal Controller returns msg to Proposal GUI.

5.9. Proposal GUI displays msg to Event organizer.

UC4: evaluate an event proposal

3. staff clicks on the proposal/id hyperlink to evaluate

4.1 Proposal GUI sends the selected event proposal id to Proposal controller

4.2 Proposal controller already has List of Proposal objects, it only returns Proposal Object associated with proposal id to Proposal GUI.

4.3 Proposal GUI displays all the information related to the Proposal Object

5. staff updates the status of proposal to "Accepted/Rejected"

5.1 Proposal GUI sends updated Proposal information to Proposal controller

5.2 Proposal controller creates a blank msg.

5.3 Proposal controller saves Proposal object status to DBMgr

5.4 DBMgr updates the status of Proposal object

5.5 If status of proposal is "Accepted"

5.5.1 Proposal controller appends "Proposal is accepted" msg.

5.6 else

5.6.1 Proposal controller requests for feedback from Proposal GUI

5.6.2 Proposal GUI displays "provide feedback"

5.6.3 Proposal GUI sends feedback and sends it to Proposal controller

5.6.4 Proposal controller saves Proposal object to DBMgr

5.6.5 Proposal controller appends "Proposal was rejected" message and the feedback to the msg.

5.6.6 DBMgr saves feedback and returns to Proposal controller

5.7. The Proposal Controller returns msg to Proposal GUI.

5.8. Proposal GUI displays msg to Event organizer.

Scenario Tables

UC1: Create Online Account				
#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
3	User	enters	email address	account GUI
4.1	account GUI	sends	account information	account controller
4.2	account controller	creates		msg
4.3	account controller	gets	User	DBMgr
4.4	account controller	verifies	email ID	User
4.4.1	If the email address is valid			
4.4.1.1	account controller	generates	temporary password	
4.4.1.2	account controller	saves	account object	DBMgr
4.4.1.2.1	DBMgr	saves	unique id	account object
4.4.1.3	account controller	appends	"created account successfully"	msg
4.4.2	else			
4.4.2.1	account controller	appends	"enter valid email address"	msg
4.5	account controller	returns	msg	account GUI
4.6	account GUI	displays	msg	user

UC2: Login				
#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
3	User	fills	username, password, accountType	Login GUI
4.1	Login GUI	sends	username, password, accountType	login controller
4.2	login controller	gets	user object	DBMgr
4.3	DBMgr	returns	user object	login controller
4.4	login controller	verifies	password	User
4.5	user object	returns	result	login controller
4.6	login controller	returns	result	Login GUI
4.7	if the result is successful			
4.7.1	Login GUI	displays	welcome page	
4.7.2	else			
4.7.2.1	Login GUI	displays	error msg	

UC3:Submit an event proposal				
#	Subject	Subject Action	Other Data/Objects	Object Acted Upon
3	event organizer	enters	information	Proposal GUI
4.1	Proposal GUI	sends	Proposal	proposal controller
4.2	proposal controller	creates		msg

#	Subject	Subject Action	Other data/objects	Object Acted upon
4.3	proposal controller	saves	Proposal & Proposal status = "submitted"	DBMgr
4.4	DBMgr	returns	Proposal	proposal controller
4.5	proposal controller	sends	Proposal	payment controller
4.6	payment controller	receives	Proposal	Proposal GUI
4.7	Proposal GUI	sends	information collected	payment controller
4.8	payment controller	processes	payment information	payment object
4.9	payment controller	saves	payment object	DBMgr
5	DBMgr	returns	payment object with unique id	payment controller
5.1	if payment is successful			
5.1.1	payment controller	updates	status in proposal object as "pending review"	proposal controller
5.2	else			
5.2.1	payment controller	updates	status in proposal object as "error"	proposal controller
5.3	proposal controller	receives	Proposal	payment controller
5.4	if status is pending review			
5.4.1	proposal controller	append	"event submitted successfully"	msg
5.5	else			
5.5.1	proposal controller	append	"event submission failed"	msg
5.6	proposal controller	saves	object	DBMgr
5.7	DBMgr	returns	status	proposal controller
5.8	proposal controller	returns	msg	Proposal GUI
5.9	Proposal GUI	display	msg	event organizer

UC4: evaluate an event proposal				
#	Subject	Subject Action	Other data/objects	Object Acted upon
3	Staff	clicks	proposal/id	Proposal GUI
4.1	Proposal GUI	sends	event proposal id	Proposal controller
4.2	Proposal Controller	returns	Proposal	Proposal GUI
4.3	Proposal GUI	displays		Proposal Object
5	staff	updates	status of proposal	Proposal GUI
5.1	Proposal GUI	sends	proposal information	Proposal controller
5.2	Proposal Controller	creates		msg
5.3	Proposal Controller	saves	Proposal	DBMgr
5.4	DBMgr	updates	Proposal	
5.5	if status of proposal is "Accepted"			
5.5.1	Proposal Controller	appends	"Proposal is accepted"	msg

5.6	Else			
5.6.1	Proposal Controller	requests	feedback	Proposal GUI
5.6.2	Proposal GUI	displays	"Provide feedback"	msg
5.6.3	Proposal GUI	sends	feedback	Proposal controller
5.6.4	Proposal Controller	saves	Proposal	DBMgr
5.6.5	Proposal Controller	appends	"Proposal is rejected"	msg
5.6.6	DBMgr	returns	feedback	Proposal controller
5.7	Proposal Controller	returns	msg	Proposal GUI
5.8	Proposal GUI	displays	msg	Event organizer

Sequence Diagrams

UC1: Create Online Account
Informal Sequence Diagram
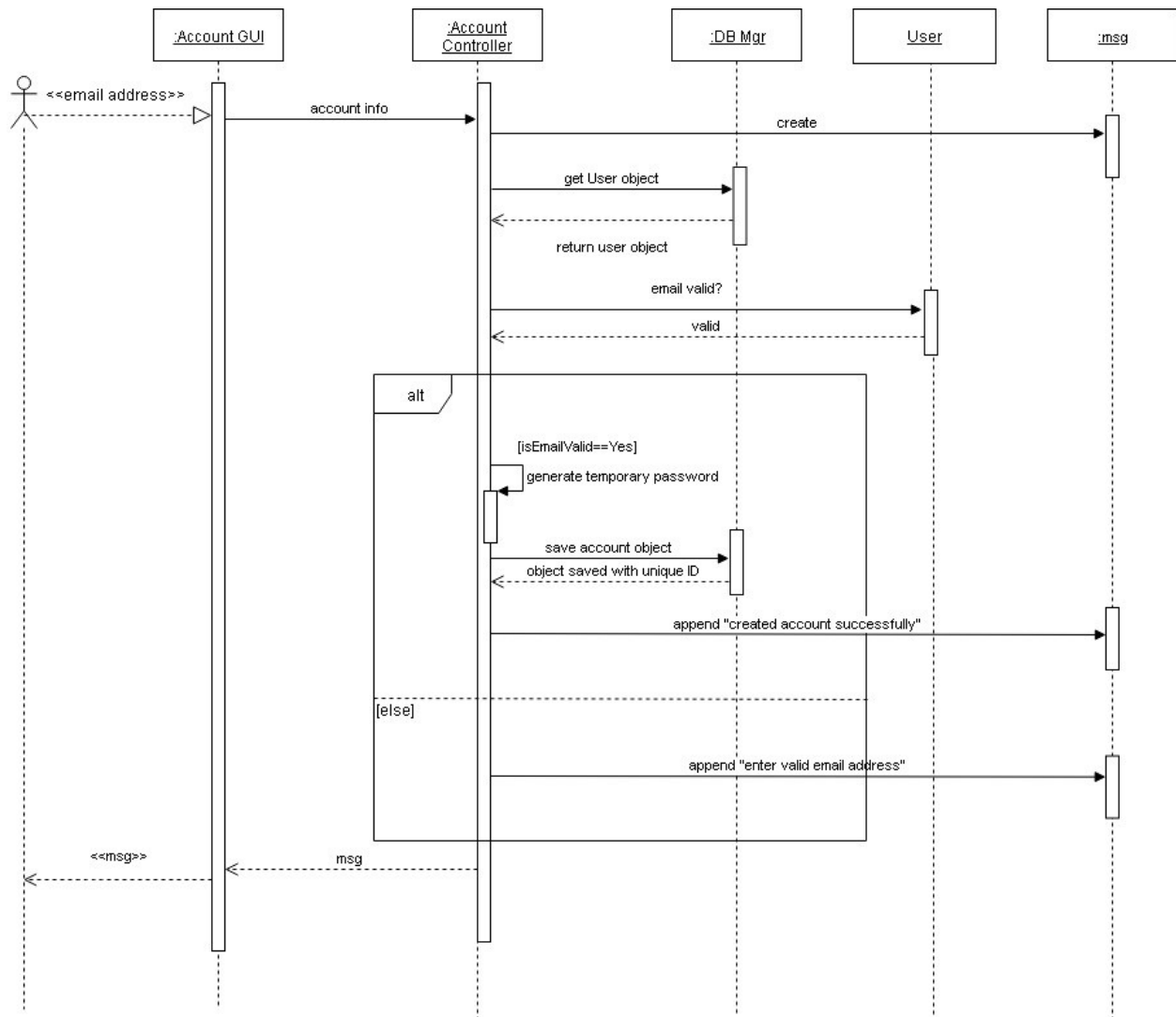
Formal Sequence Diagram
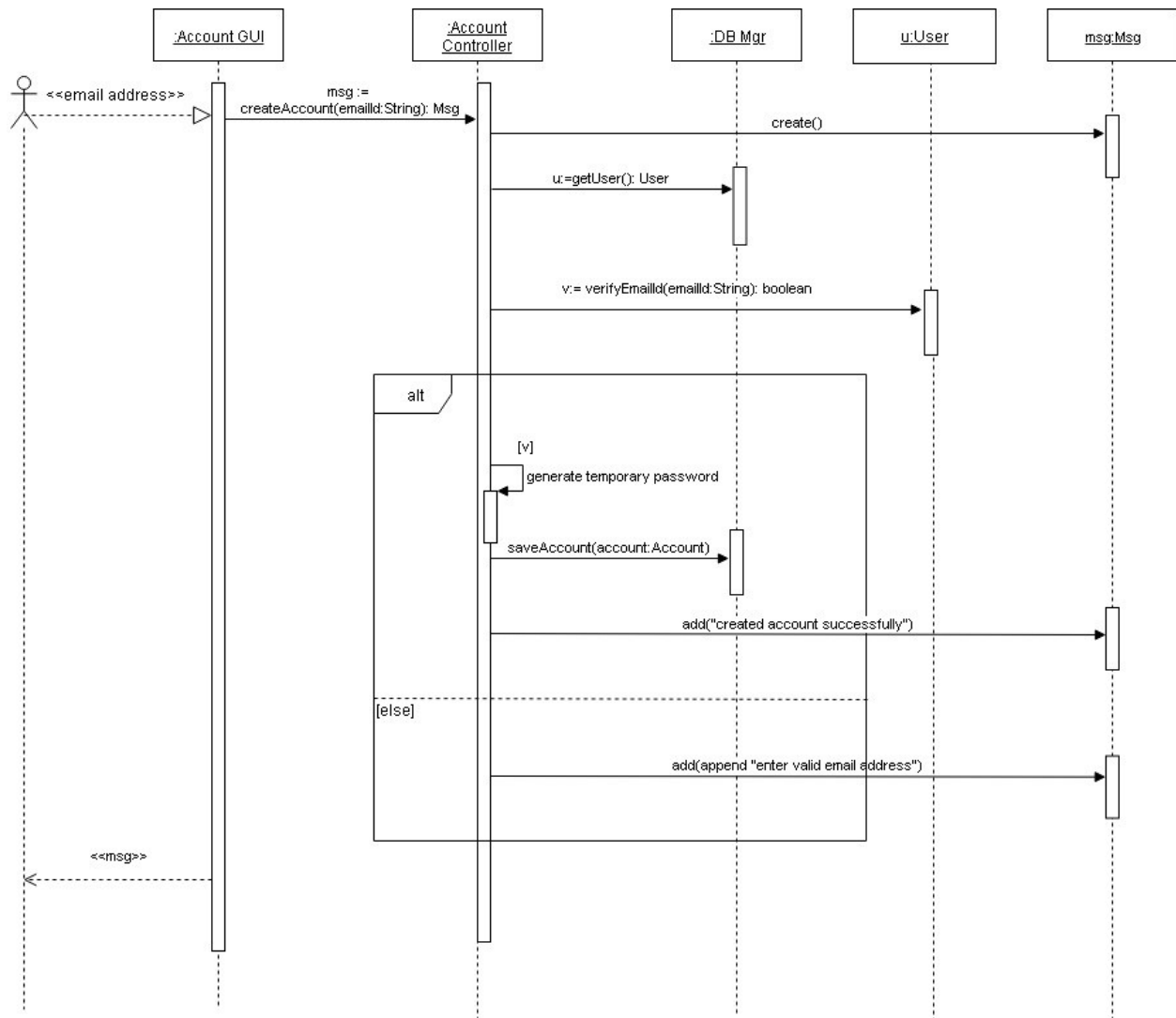
UC2: Login
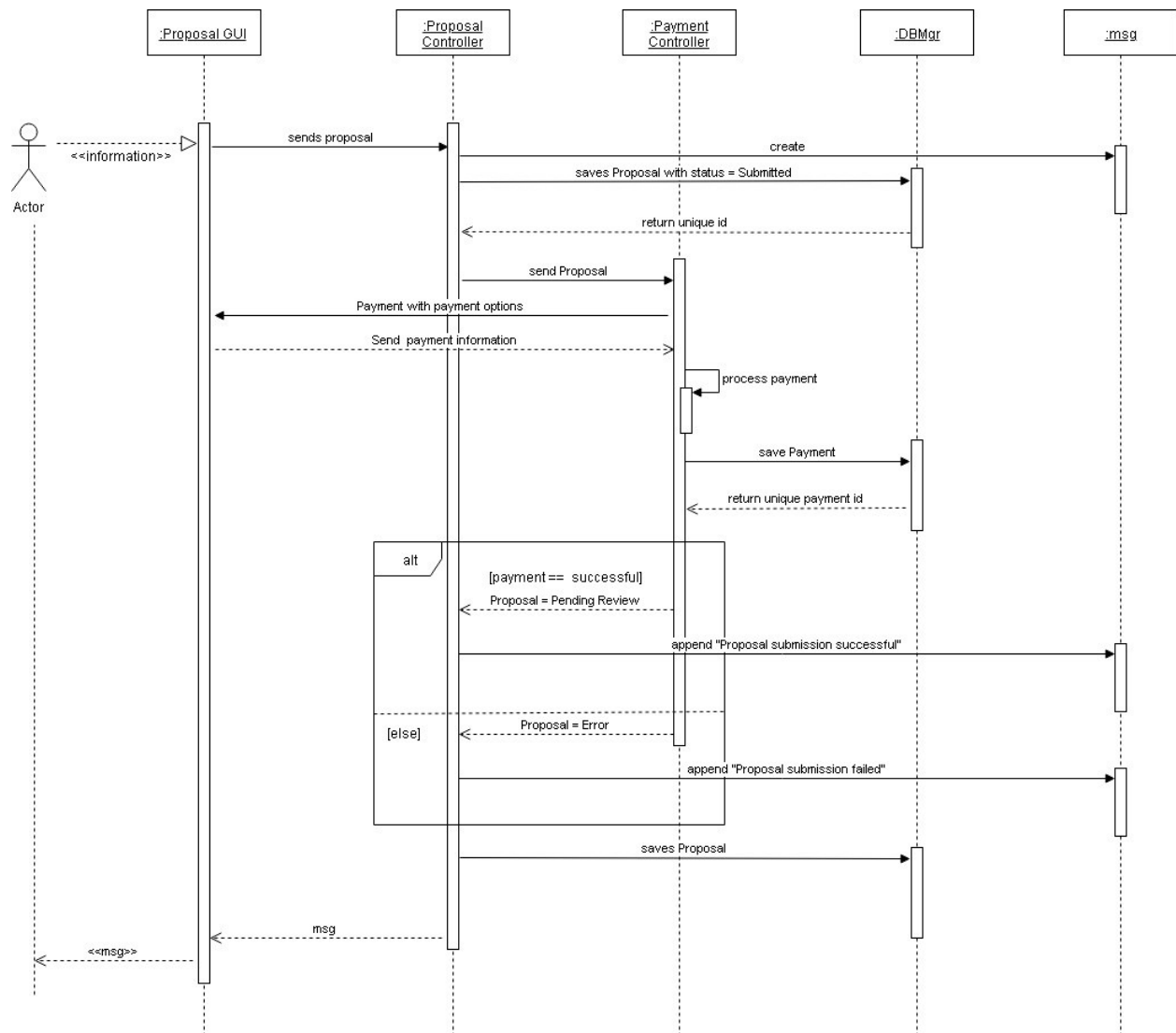*Informal Sequence Diagram*
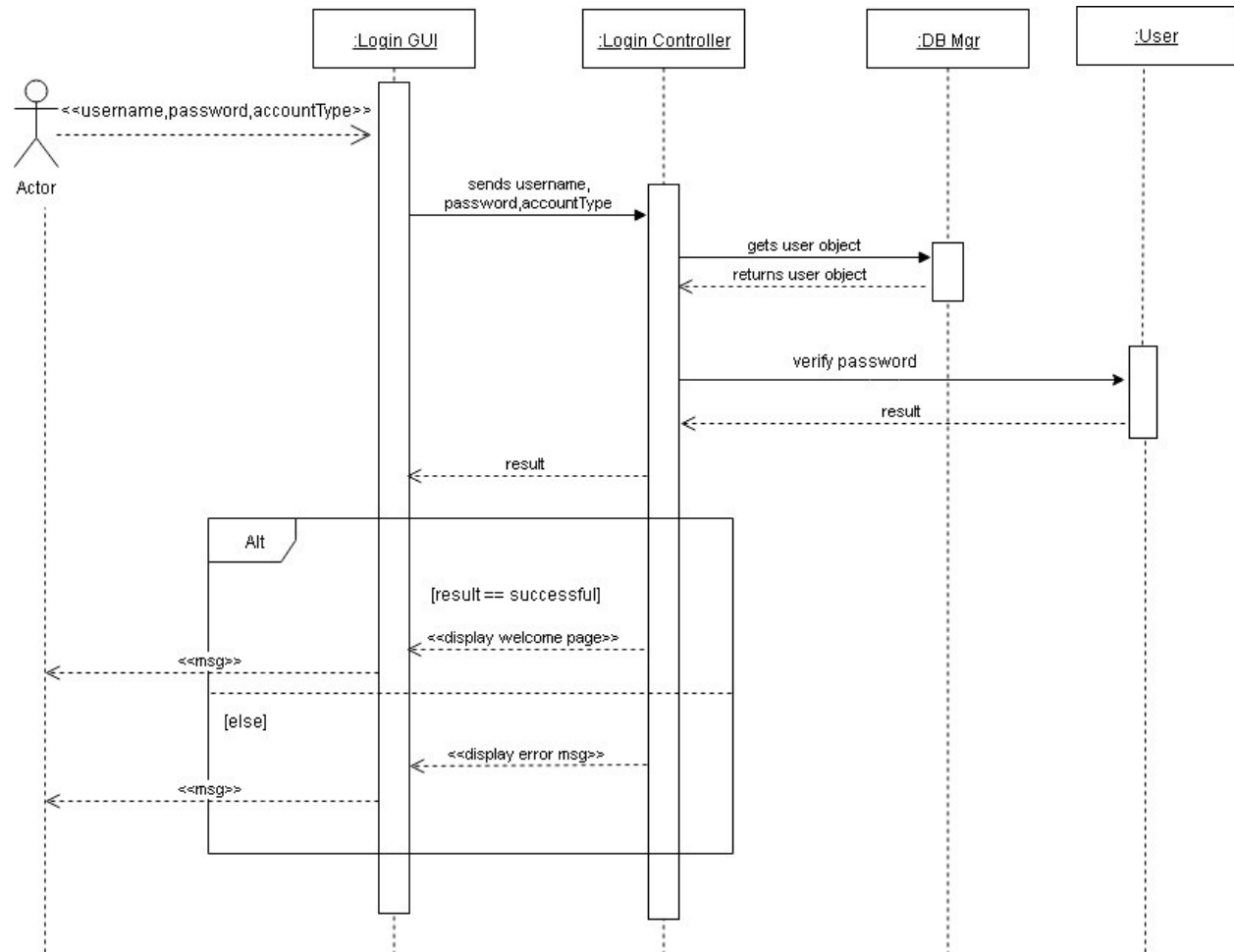
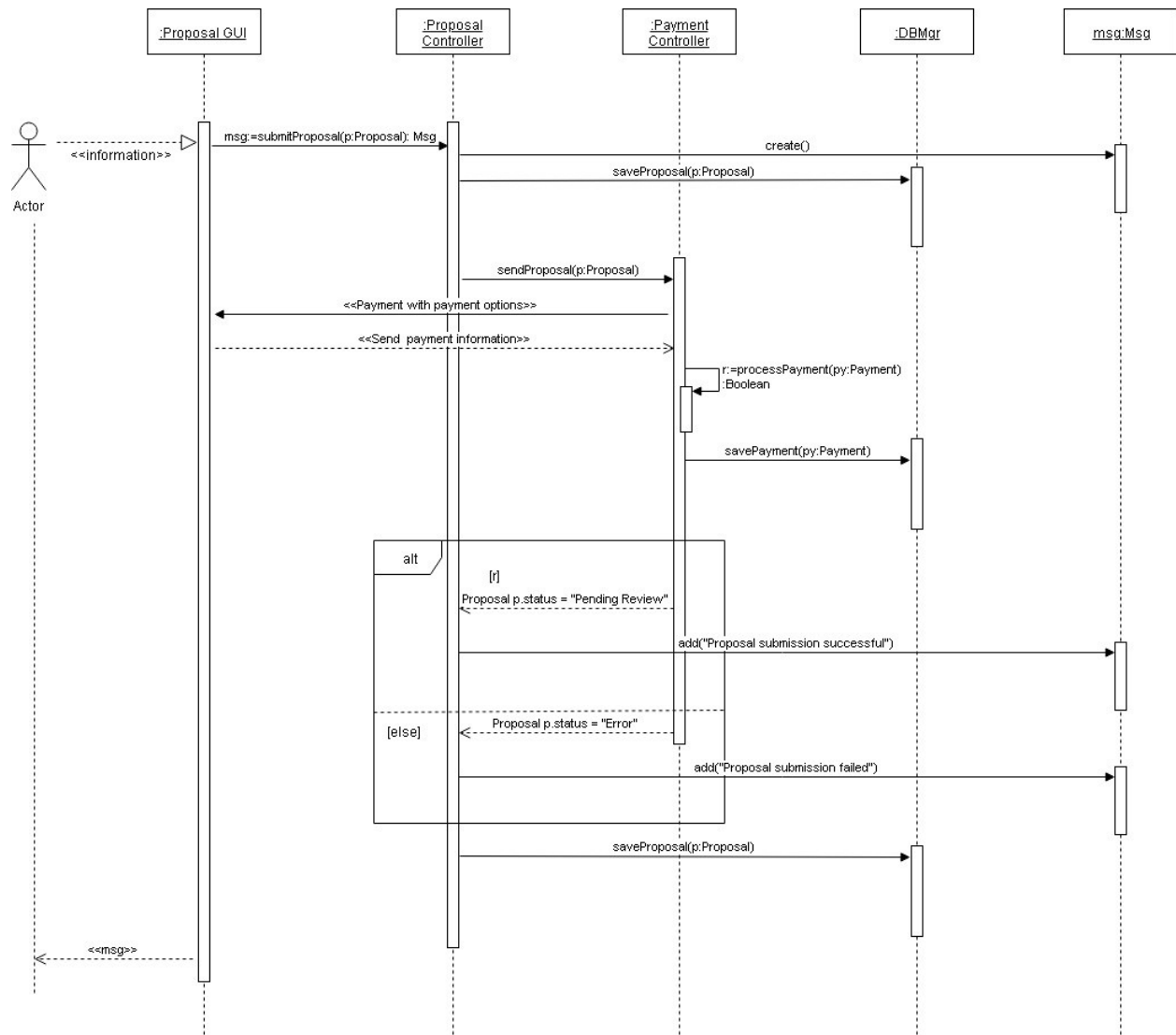## Formal Sequence Diagram
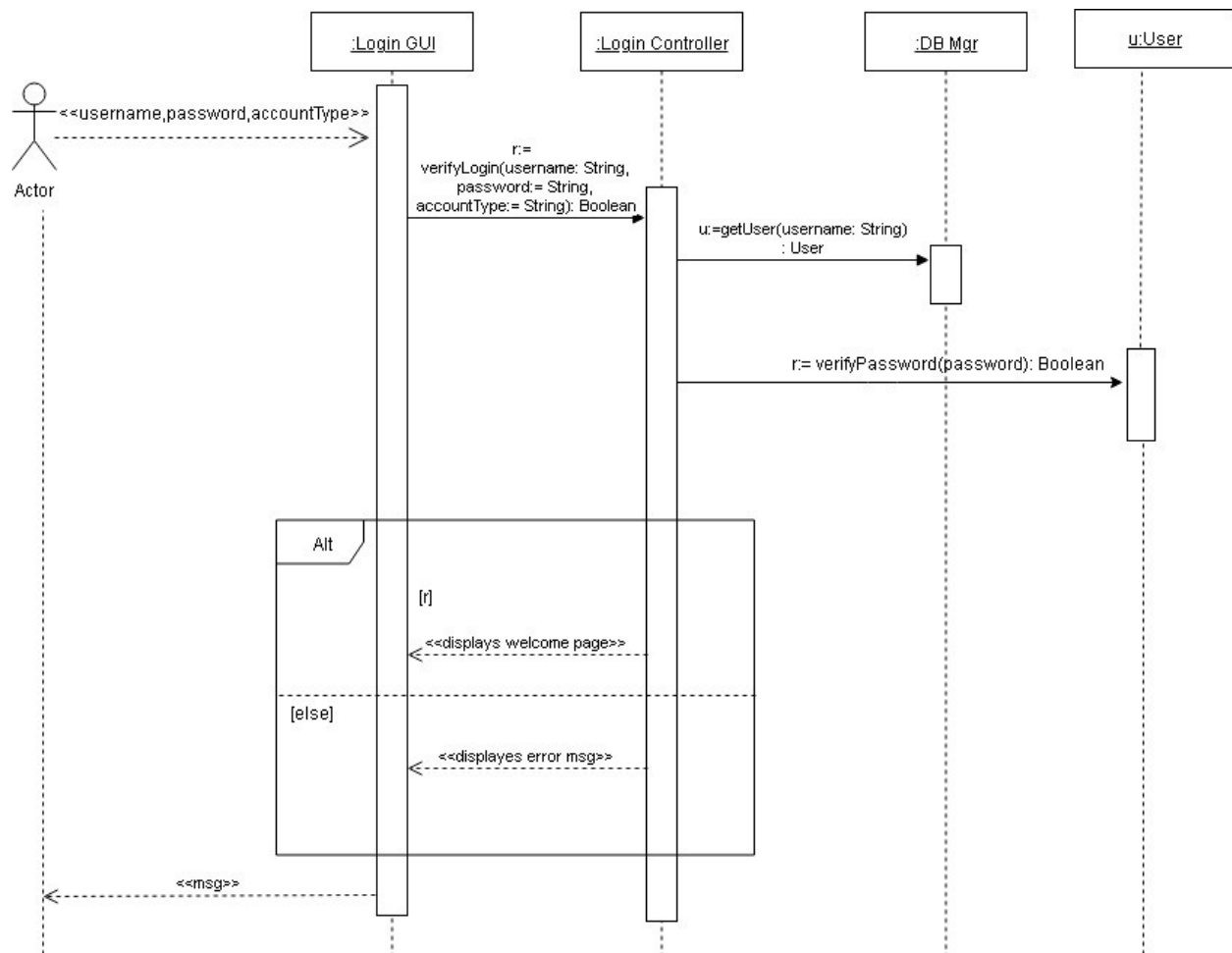
UC3: submit an event proposal

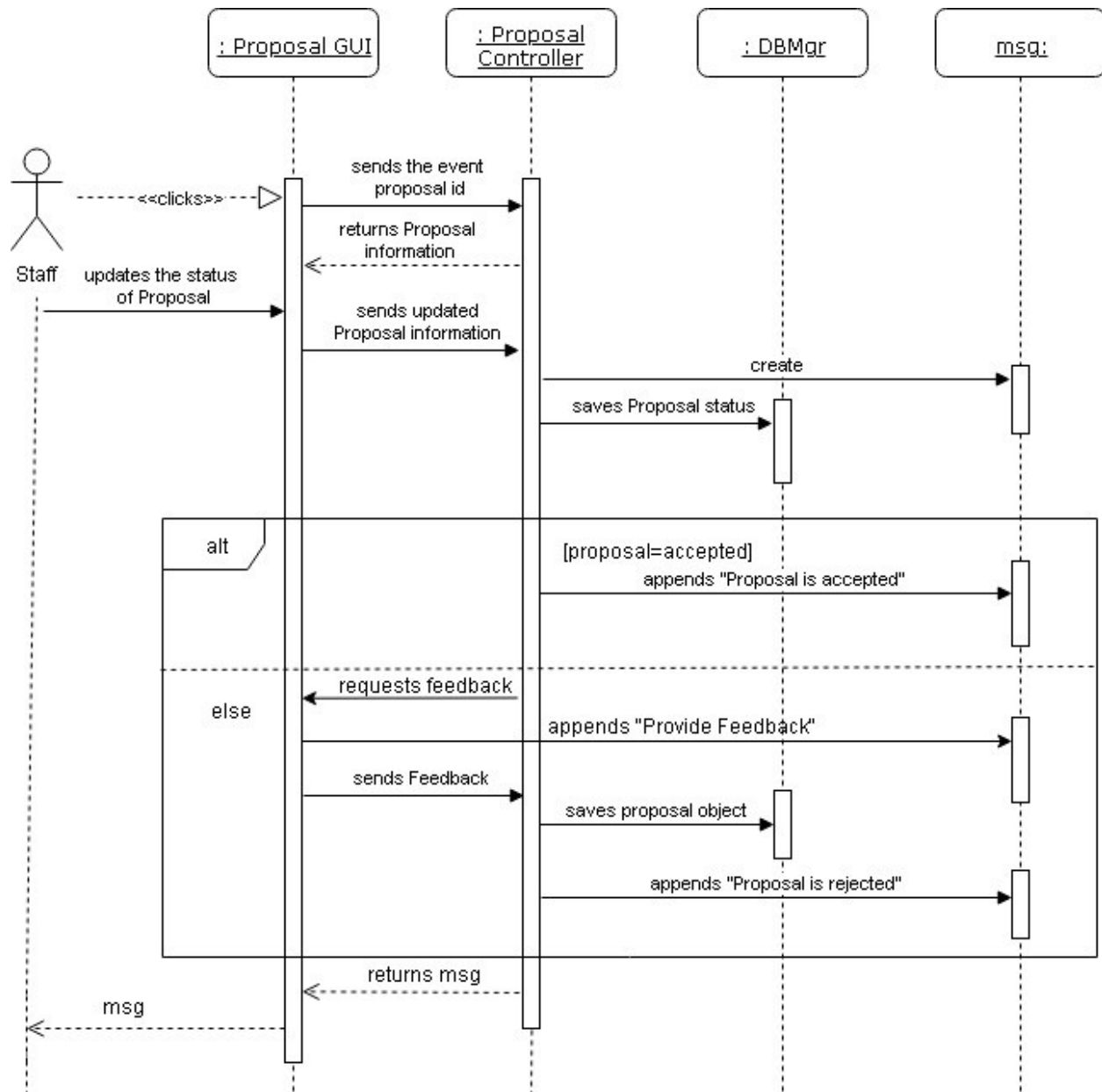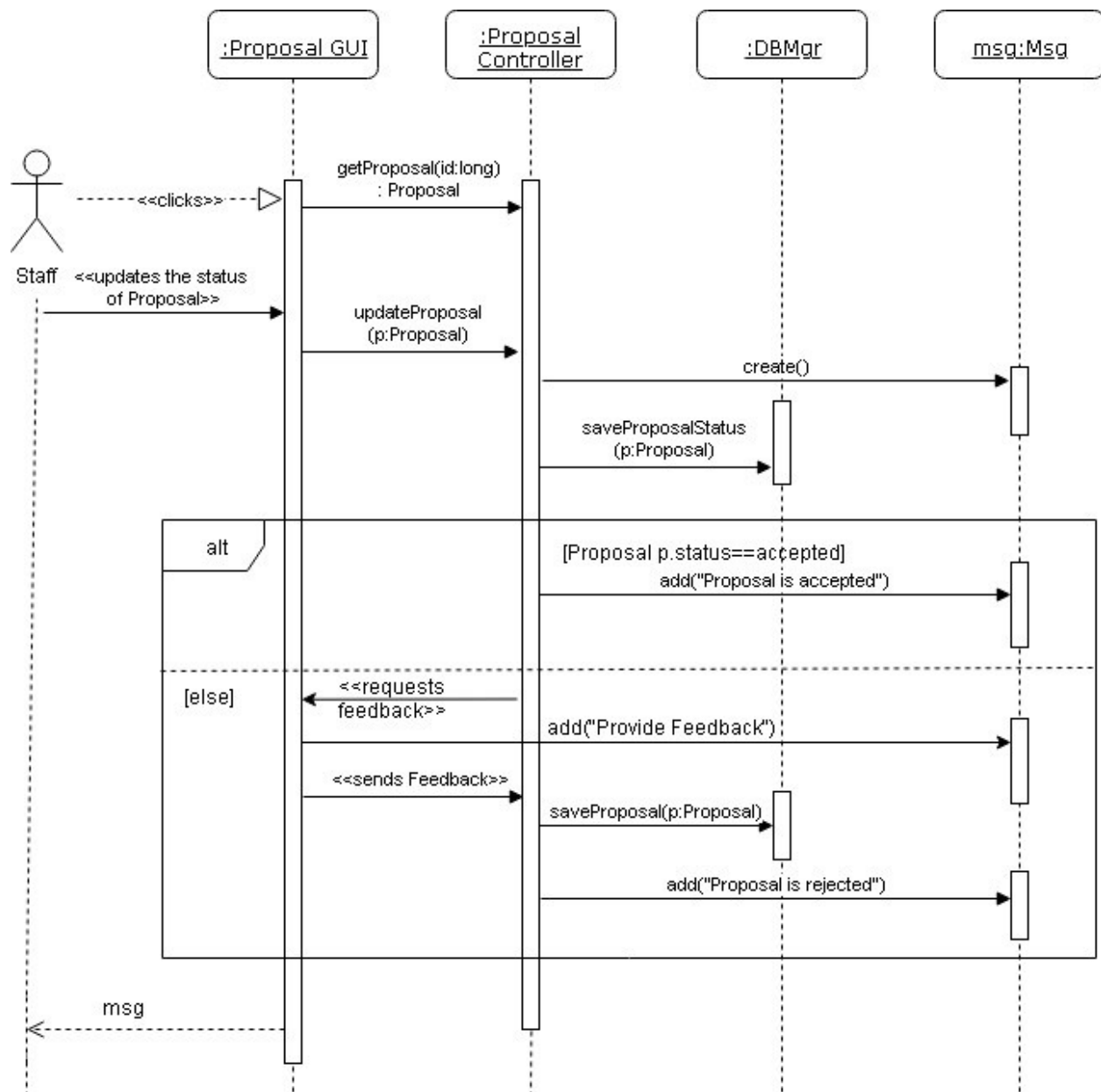*Informal Sequence Diagram*

Formal Sequence Diagram

UC4: evaluate an event proposal

Informal Sequence Diagram

Formal Sequence Diagram

DCD