Entertainment in a Click

Software Requirements Specification

Version 1

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Lead Software Engineer

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Work Distribution

Student Name	Role and Responsibilities
Majd Bin musiabeh	Accept/decline license request use case description. Add GEA Staff account sequence & activity diagrams. Update license request status Mockup.
Lujain Almuhaitheef	Search venues use case description. Publish regulation sequence & activity diagrams. Revise use case diagram.
Najd Alsughayier	Block customer account use case description. Log-in sequence & activity diagrams. Revise use case description.
Latifah Alomar	Issue a license request use case description. Search for venue by name sequence & activity diagrams. Purchase ticket Mockup. Search for venues Mockup. Log-in Mockup.

Revision History

Date	Description	Author	Comments
<date>	<Version 0>	<Your Name>	<First Revision>

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Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date
	<Your Name>	Lead Software Eng.	

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1. Introduction

This section gives a scope description and overview of everything included in this SRS document. Also, the purpose for this document is described and a list of abbreviations and definitions is provided.

1.1 Purpose

The aim of the project is to develop Entertainment in a Click software.

1.2 Scope

> System benefits: Manage and organize the entertainment activities between the system users in more efficient way.
> System users: Admin, General Entertainment Authority staff, Service Provider, customer, visitor.
> System main functions: Issue a license request for an event, pay event ticket, post event review, and search events.

1.3 Definitions, Acronyms, and Abbreviations

GEA: General Entertainment Authority.
Visitors: Non-registered users that can benefit from the system.
Customer: Registered "Entertainment in a click" user who will benefit from the application.
Service Provider: Registered companies that works on organizing the events in KSA.
GEA's staff: Registered GEA staff member who have special features in the application.
Mail Server: Is a server that handles and delivers e-mail over a network, usually over the Internet.
SADAD: The SADAD System was set up by the Saudi Arabian Monetary Agency (SAMA) to serve as the national electronic bill presentment and payment (EBPP) service provider for the Kingdom of Saudi Arabia.

1.4 References

1.5 Overview

The rest of SRS contains functional requirements, non-functional requirements, design constraints, system boundary diagram, use case diagram, and use case description for most critical use cases.

2. General Description

3. Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

3.2 Functional Requirements

3.2.1 The admin shall be able to login into the system.

3.2.2 The admin shall be able to update his\her account.

3.2.2.1 The admin shall be able to reset the password.

3.2.3 The admin shall be able to manages all accounts.

 3.2.3.1 The admin shall be able to remove any of the following account: customers', service providers and General Entertainment Authority (GEA) staff accounts.

3.2.3.2 The admin shall be able to approve service providers accounts.

3.2.3.3 The admin shall be able to register General Entertainment Authority staff account by filling the registration form (first name, last name, email, username and password).

3.2.4 The Mail Server shall send an email contains username and password to the newly registered account.

3.2.5 The admin shall be able to view event reviews.

3.2.6 The admin shall be able to block any review.

3.2.7 The admin shall be able to block the customer account.

3.2.8 The admin shall be able to manages event venue.

3.2.8.1 The admin shall be able to add event venue.

3.2.8.2 The admin shall be able to update event venues.

3.2.8.3 The admin shall be able to delete event venues.

3.2.9 The admin shall be able to manages event categories.

3.2.9.1 The admin shall be able to add event categories.

3.2.9.2 The admin shall be able to update event categories.

3.2.9.3 The admin shall be able to delete event categories.

3.2.10 The Service providers shall be able to sign up to the system by providing (first name, last name, email, phone number, company name, company address, commercial record, username and password).

3.2.11 The system shall notify the admin about Service providers sign up request.

3.2.12 The service provider shall be able to view General Entertainment Authority regulations.

3.2.13 The service provider shall be able to search for venues by names.

3.2.14 The service provider shall be able to view the detailed information of the venues (capacity, cost and contact information).

3.2.15 The service provider shall be able to issue a license request.

3.2.16 The system shall send a notification to the General Entertainment Authority staff to accept or decline the service provider license request.

3.2.17 The service providers shall be able to view their license request status.

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3.2.18 The service provider shall be able to update events.
3.2.19 The service provider shall be able to view events.
3.2.20 The service provider shall be able to login into the system.
3.2.21 The service provider shall be able to update their account.
3.2.21.1 The service provider shall be able reset the password.
3.2.22 The GEA staff shall be able to view the license request details issued by service providers.
3.2.23 The General Entertainment Authority staff shall be able to accept/decline the license request issued by service providers.
3.2.24 The General Entertainment Authority staff shall be able to view user complaints.
3.2.25 The General Entertainment Authority staff shall be able to update user complaints status.
3.2.26 The system shall publish the event.
3.2.27 The customer shall be able to sign up to the system.
3.2.28 The customer shall be able to login into the system..
3.2.29 The customer shall be able to update their account.
3.2.29.1 The customer shall be able reset the password.
3.2.30 The customer shall be able to write reviews on events.
3.2.31 The customer shall be able to rate the event he/she attended from a scale of 1 to 5.
3.2.32 The customer shall be able to purchase tickets.
3.2.32.1 The customer shall be able to purchase tickets via visa payment system.
3.2.32.2 The customer shall be able to purchase tickets via Mastercard payment system.
3.2.32.3 The customer shall be able to purchase tickets via SADAD payment system.
3.2.33 The system shall send a confirmation email to the customer after successful completion.
3.2.34 The customer shall be able to view his/her purchased tickets.
3.2.35 The customer shall be able to set a reminder to receive a notification a day before the start of an event they have paid for.
3.2.36 The customer shall be able to give a complaint against any event to the GEA staff.
3.2.37 The visitor shall be able to search for the events.
3.2.37.1 The visitor shall be able to search for the event by location.
3.2.37.2 The visitor shall be able to search for the event by categories.
3.2.37.3 The visitor shall be able to search for the event by targeted audience.
3.2.38 The visitor shall be able to view event information
3.2.38.1 The visitor shall be able to view event location.
3.2.39 The visitor shall be able to create an account.
3.2.39.1 The visitor shall be able to create an account as a customer.
3.2.39.2 The visitor shall be able to create an account as service provider.
3.2.40 The General Entertainment Authority staff shall be able to log in into the system.
3.2.41 The General Entertainment Authority staff shall be able to update their account.
3.2.41.1 The General Entertainment Authority staff shall be able reset the password.

3.3 Use Cases

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3.4 Use Cases Description

Use Case Description
System: Entertainment in a Click.
Use Case name: Issue a licenses request.

Primary actor: Service Provider.	**Secondary actor(s):** None.

Description: this use case describes how a Service Provider issue a license request.
Relationships   ▪   **Includes: none.**   ▪   **Extends: none.**
Pre-conditions: **The Service Provider logged in successfully.**

Steps:		
Primary Actor (Service Provider)	**System**	**Secondary Actor(s) (none)**

1. **This use case starts when the Service Provider select "issue a license request "**		
	2. **The System display the request form.**	
3 . The Service Provider fills the form with the following information: · **Event name.** · **Event logo.** · **Event description.** · **Event date.** · **Event time.** · **Event location.** · **Event audience.** · **Tickets price and information.** · **Event rules and regulations.** · **City.** · **Location capacity.** · **Number of expected attendees.** · **Attendees age limit** · **Cost and earnings.**		
4. The Service Provider submit the request.		
	5. **The system send a notification to GEA staff.**	

Alternative and exceptional flows:
1 . Missing Field/Incorrect Format
If in step 3 the Service Provider misses a required field or enters a field in incorrect format, then:
 1.The system displays a message indicating required field or format.
2.Step 3 is resumed.
2. Service Provider quits
If at any step before step 3 the Service Provider selects cancel
1.The use case ends with failure condition

Post-conditions: -Successful Condition: The System successfully submit the request.
 -Failure Condition: No request is submitted.

Use Case Description

System: Entertainment in a Click.

Use Case name: Search venues.

Primary actor: Service providers.	Secondary actor(s): None.

Description: The use case describes how the Service providers can search for venues by names

Relationships
- **Includes: none.**
- **Extends: none.**

Pre-conditions:
1. **The Service providers must be signed up successfully.**
2. **The Service providers must be logged in successfully.**

Steps:		

Primary Actor (Service providers)	System	Secondary Actor(s) (none)
1- The use case begin when the Service providers select "search venues"option . **3- the service providers write the name of the venues in the field.** 4- **the service providers select search option.**	**2-The system displays the "search venues by name" field.** **5-the system display the event in that venues.**	None.

Alternative and exceptional flows:
1. Missing Field/Incorrect Format :
If in step 3 the Service Provider misses a required field or enters a field in incorrect format, then:
 1.The system displays a message indicating required field or format.
2.Step 3 is resumed.

2. the venues are not found :
if the name of the venues are not found, The system display "venue not found" message .

3. Service providers quits:
If the service providers select cancel the home page will appear

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 Post-conditions:
- **Successful condition: the system successfully found the search venues.**
- **Failure Condition:venues are not found.**

Use Case Description

System: Entertainment in a Click

Use Case name: Log-in.

Primary actor: **GEA staff**	**Secondary actor(s): Mail service.**

Description: This use case allows the GEA staff to log-in to Entertainment in click.

Relationships
- **Includes: None**
- **Extends: None**

Pre-conditions:
   none

Steps:

Primary Actor (GEA Staff)	**System**	**Secondary Actor(s) (if applicable)**

1- This use case begins when the GEA staff chooses the "Log-in" option.
 	
 3- The GEA staff fill the form and choose **"Log-in".**
	2- The system displays a form that requires to fill up the following:
	    - Username
	    - Password
	
	 4- The system authenticates the username and password
	 5- The system directs the GEA staff to the main page.
	 6- End of use case.	

Alternative and exceptional flows:

Step 4: First time log-in:
If the GEA staff logged-in for the first time:
1- The system displays a form that require to Enter new password.
2- The GEA staff Enter the new password and submit.
3- The System display successful message.
4- The system directs the GEA staff to the main page.
5- End of use case.

Step 4: Invalid username or password:
If the GEA staff enters invalid username or password:
1- The system displays an error message.
2- End of the use case

Post-conditions:
Success: The GEA staff logged-in successfully.
Fail: The system displays an error message if the Username and password are incorrect.

Use Case Description

System: Entertainment in a click.

Use Case name: Block customer account.

Primary actor: Admin	Secondary actor(s): None.

Description: The use case allows an admin to block customer account.

Relationships

▪   **Includes: None**

▪   **Extends: Block review**

Pre-conditions: The customer has 5 blocked reviews.

Steps:

Primary Actor (Admin)	System	Secondary Actor(s) (if applicable)
1. Admin selects 'Block account' option.		
	2. System displays the block account form.	
3. Admin fill the form with a reason for blocking the account.		
4. Admin selects submit.		
	5. System displays a confirmation message.	
6. Admin selects 'Yes'		
	7. System displays a message: 'The customer has been blocked successfully'	
	8. System directs the Admin to main page.	

Alternative and exceptional flows:

In step 6, Admin selects 'No':

7. System displays a message: 'The customer has not been blocked'

8. System directs the Admin to main page.

   2. Admin quits
   If at any step before step 4 the Admin selects cancel
   1.The use case ends with failure condition.

Post-conditions: If the operation successes, the customer will no longer be able to post a review.

If the operation fails, nothing will change.

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3.6 Non-Functional Requirements

3.6.1 The system shall keep backups of registered events and store them for a period of at least three years.
3.6.2 The system shall encrypt All private data like passwords and credit card information.
3.6.3 The system shall be available 99.95% of time.
3.6.4 The system shall support 10000 users accessing it at the same time.
3.6.5 the system response time shall be less than 5 seconds.
3.6.6 The system shall support both Arabic and English languages.

3.8 Design Constraints

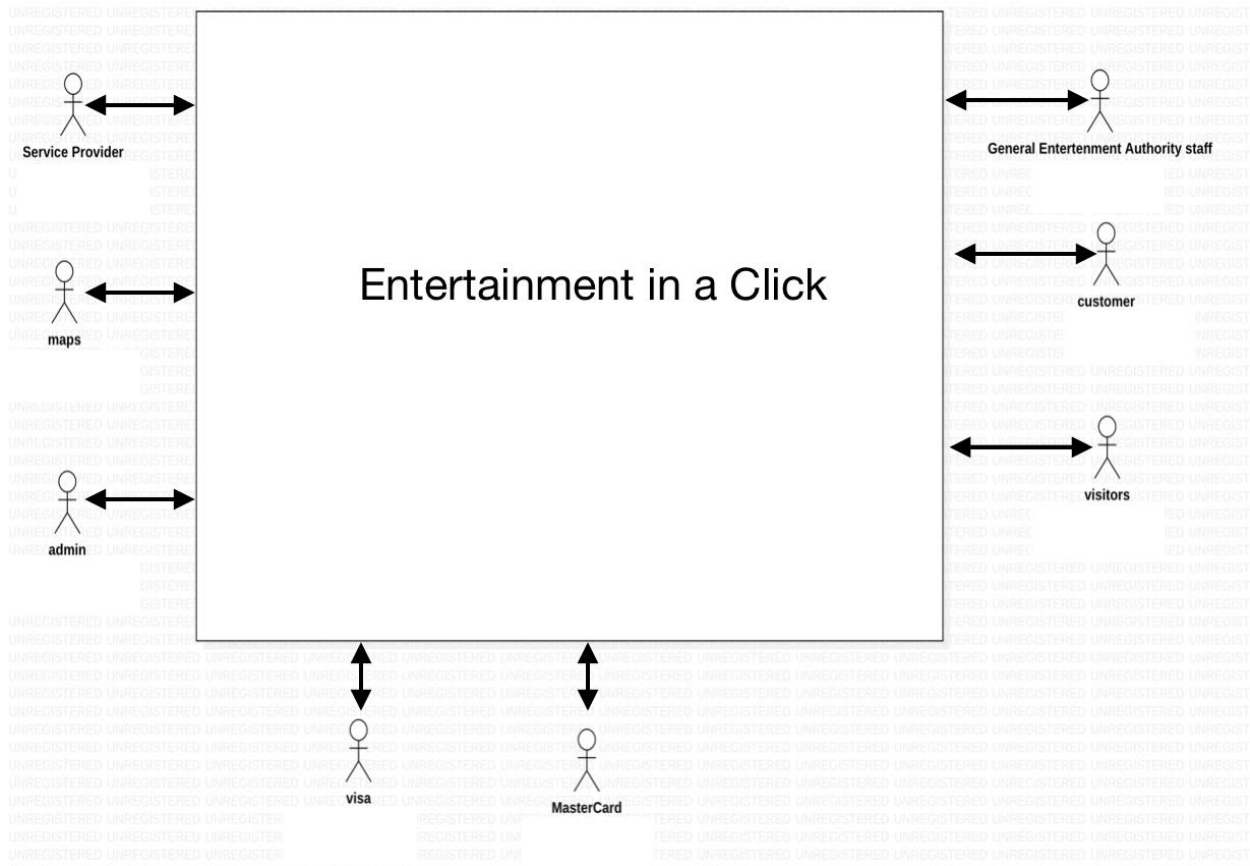**3.8.1 The System shall run as an iOS application.**
3.8.2 The system's maps shall be able to work with a location-based system.
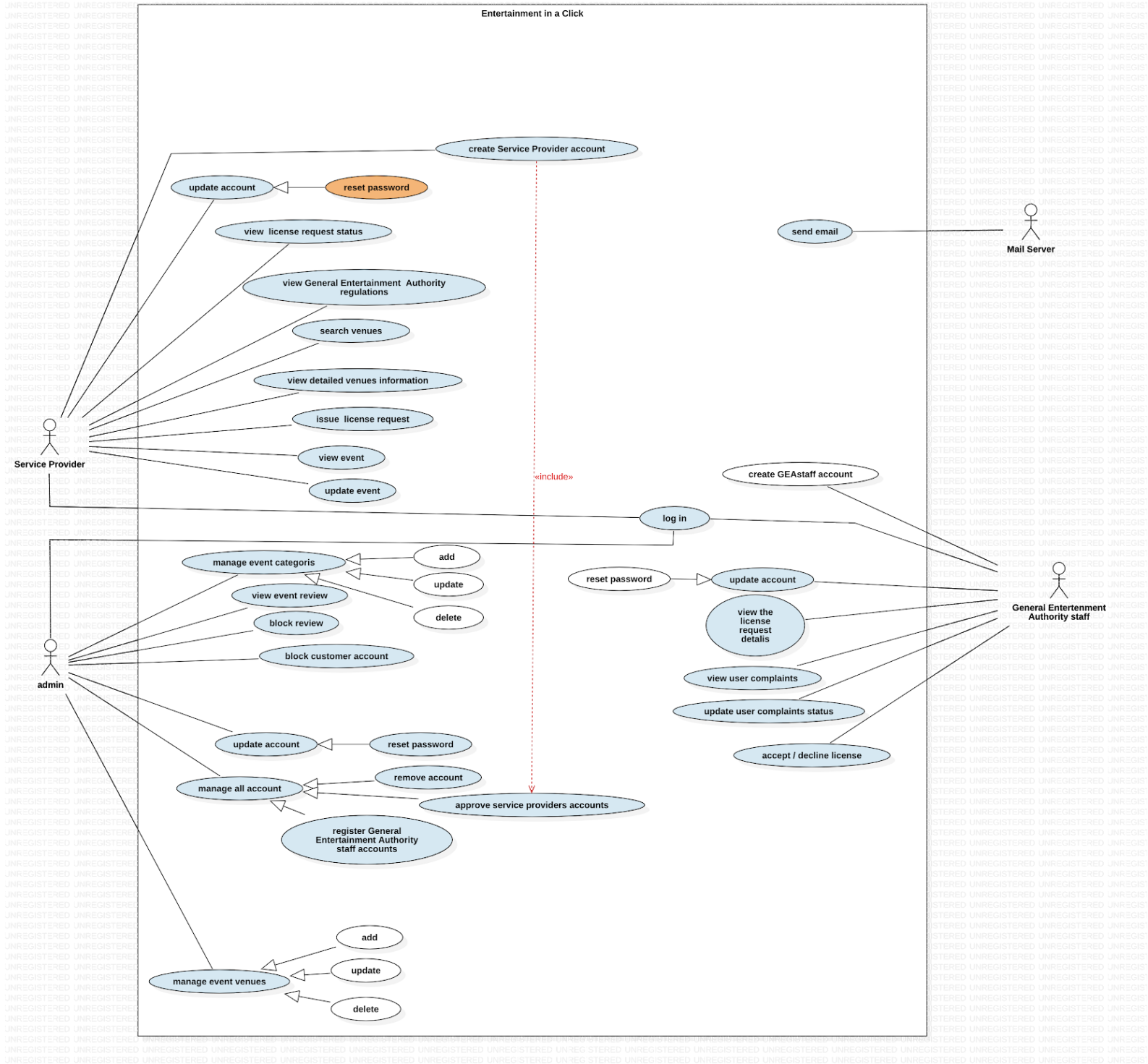**3.8.3 The system shall be interoperable with the available payment systems.**
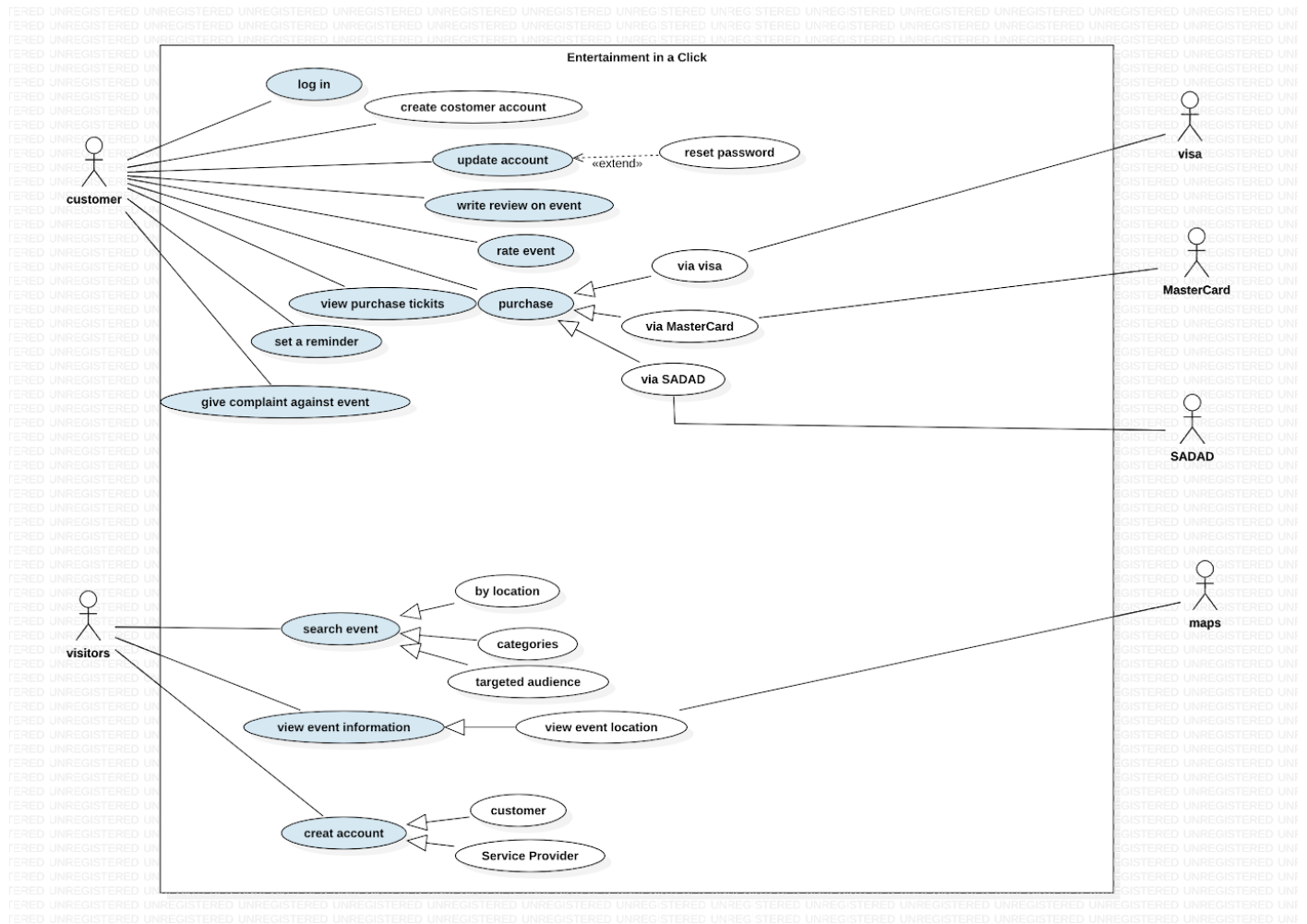**3.8.4 The system shall be interoperable with the mail server.**
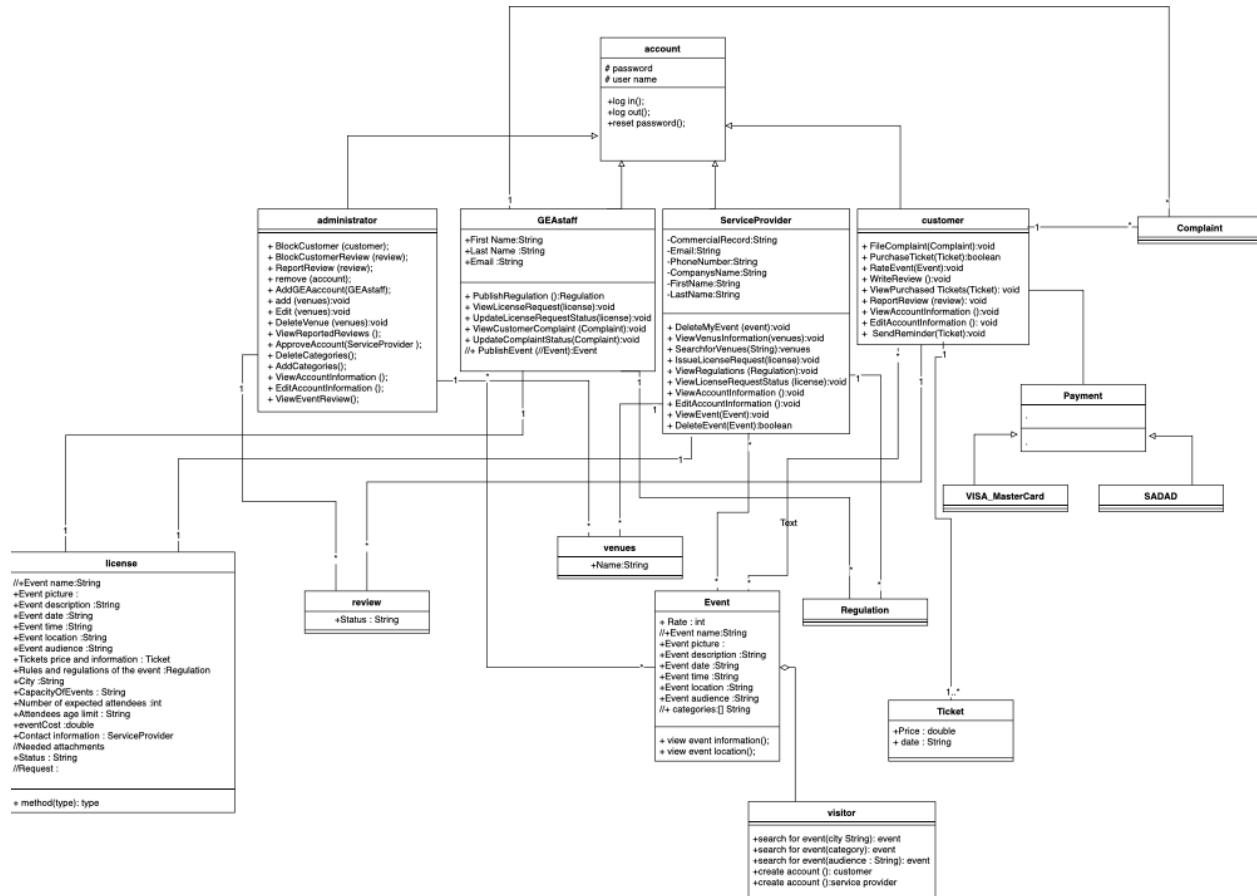
3.10 Other Requirements

4 System boundary

Entertainment in a Click

5 Use Case Diagram

6 Class Diagram

account

\# password
\# user name

+log in();
+log out();
+reset password();

administrator

+ BlockCustomer (customer);
+ BlockCustomerReview (review);
+ ReportReview (review);
+ remove (account);
+ AddGEAaccount(GEAstaff);
+ add (venues):void
+ Edit (venues):void
+ DeleteVenue (venues):void
+ ViewReportedReviews ();
+ ApproveAccount(ServiceProvider);
+ DeleteCategories();
+ AddCategories();
+ ViewAccountInformation ();
+ EditAccountInformation ();
+ ViewEventReview();

GEAstaff

+First Name:String
+Last Name :String
+Email :String

+ PublishRegulation ():Regulation
+ ViewLicenseRequest(license):void
+ UpdateLicenseRequestStatus(license):void
+ ViewCustomerComplaint (Complaint):void
+ UpdateComplaintStatus(Complaint):void
//+ PublishEvent (//Event)::Event

ServiceProvider

-CommercialRecord:String
-Email:String
-PhoneNumber:String
-CompanysName:String
-FirstName:String
-LastName:String

+ DeleteMyEvent (event):void
+ ViewVenusInformation(venues):void
+ SearchforVenues(String):venues
+ IssueLicenseRequest(license):void
+ ViewRegulations (Regulation):void
+ ViewLicenseRequestStatus (license):void
+ ViewAccountInformation ():void
+ EditAccountInformation ():void
+ ViewEvent(Event):void
+ DeleteEvent(Event):boolean

customer

+ FileComplaint(Complaint):void
+ PurchaseTicket(Ticket):boolean
+ RateEvent(Event):void
+ WriteReview ():void
+ ViewPurchased Tickets(Ticket): void
+ ReportReview (review): void
+ ViewAccountInformation ():void
+ EditAccountInformation (): void
+ SendReminder(Ticket):void

Complaint

Payment

VISA_MasterCard

SADAD

license

//+Event name:String
+Event picture :
+Event description :String
+Event date :String
+Event time :String
+Event location :String
+Event audience :String
+Tickets price and information : Ticket
+Rules and regulations of the event :Regulation
+City :String
+CapacityOfEvents : String
+Number of expected attendees :int
+Attendees age limit : String
+eventCost :double
+Contact information : ServiceProvider
//Needed attachments
+Status : String
//Request :

+ method(type): type

review

+Status : String

venues

+Name:String

Event

+ Rate : int
//+Event name:String
+Event picture :
+Event description :String
+Event date :String
+Event time :String
+Event location :String
+Event audience :String
//+ categories[] String

+ view event information();
+ view event location();

Regulation

Text

Ticket

+Price : double
+ date : String

1..*

visitor

+search for event(city String): event
+search for event(category): event
+search for event(audience : String): event
+create account (): customer
+create account ():service provider

7 Sequence Diagrams

Log-in:

Publish regulations:

Search for venue by name:

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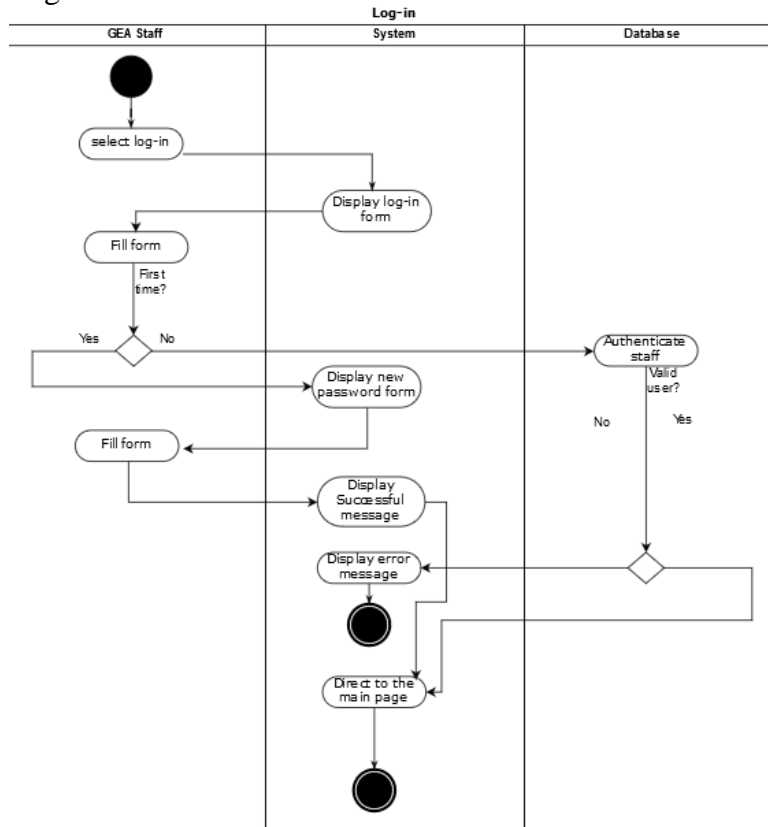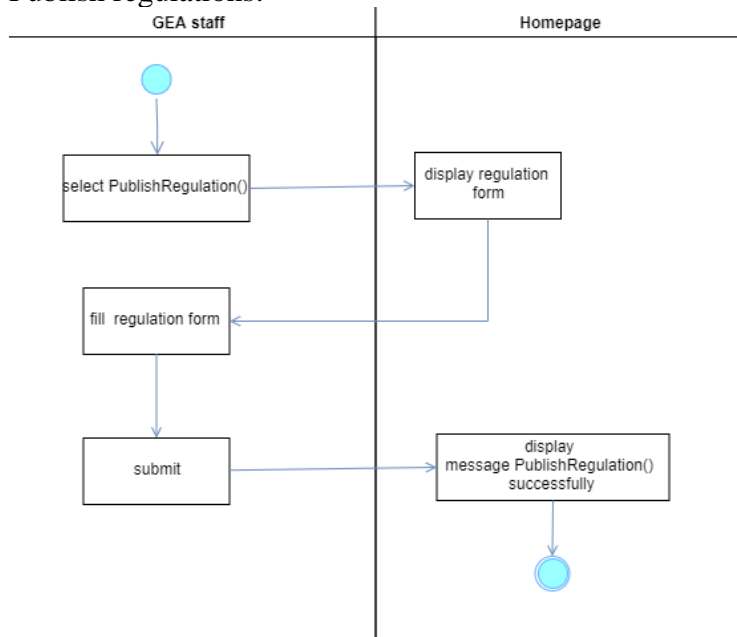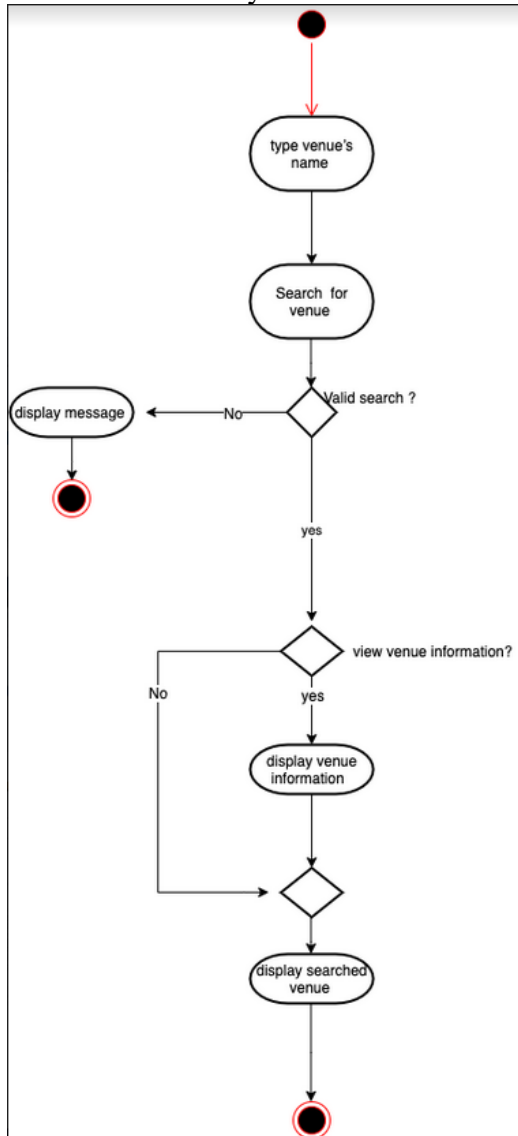
Add GEA Staff account:

8 Activity Diagrams

Log-in:
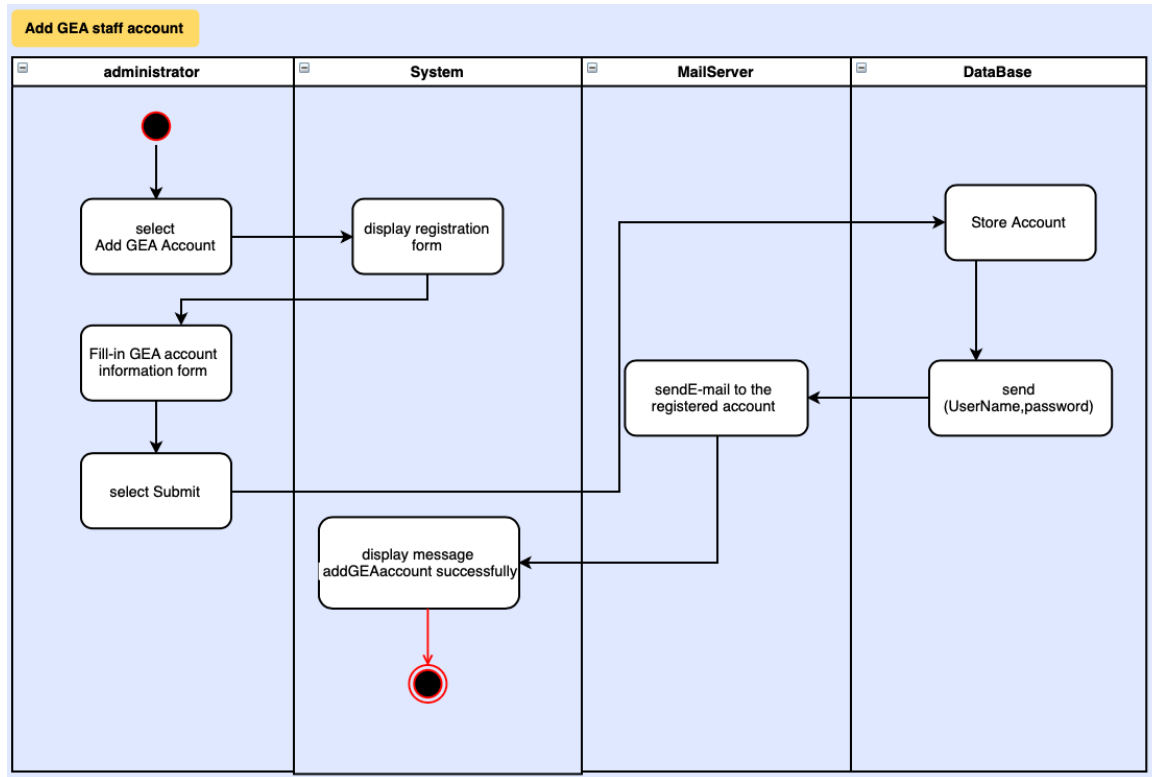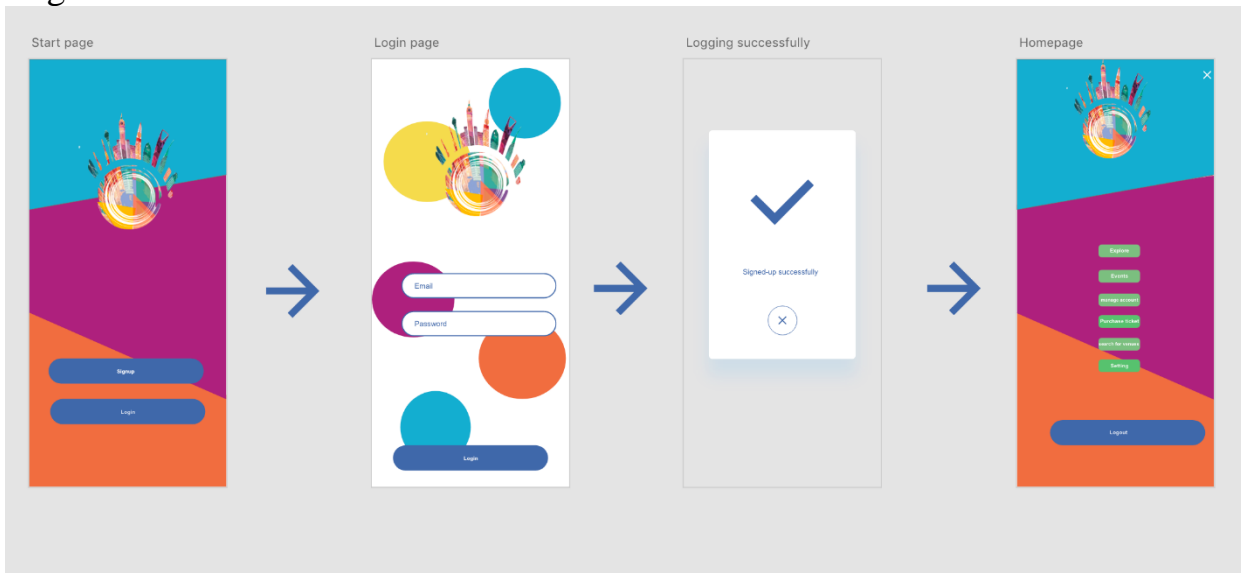

Publish regulations:
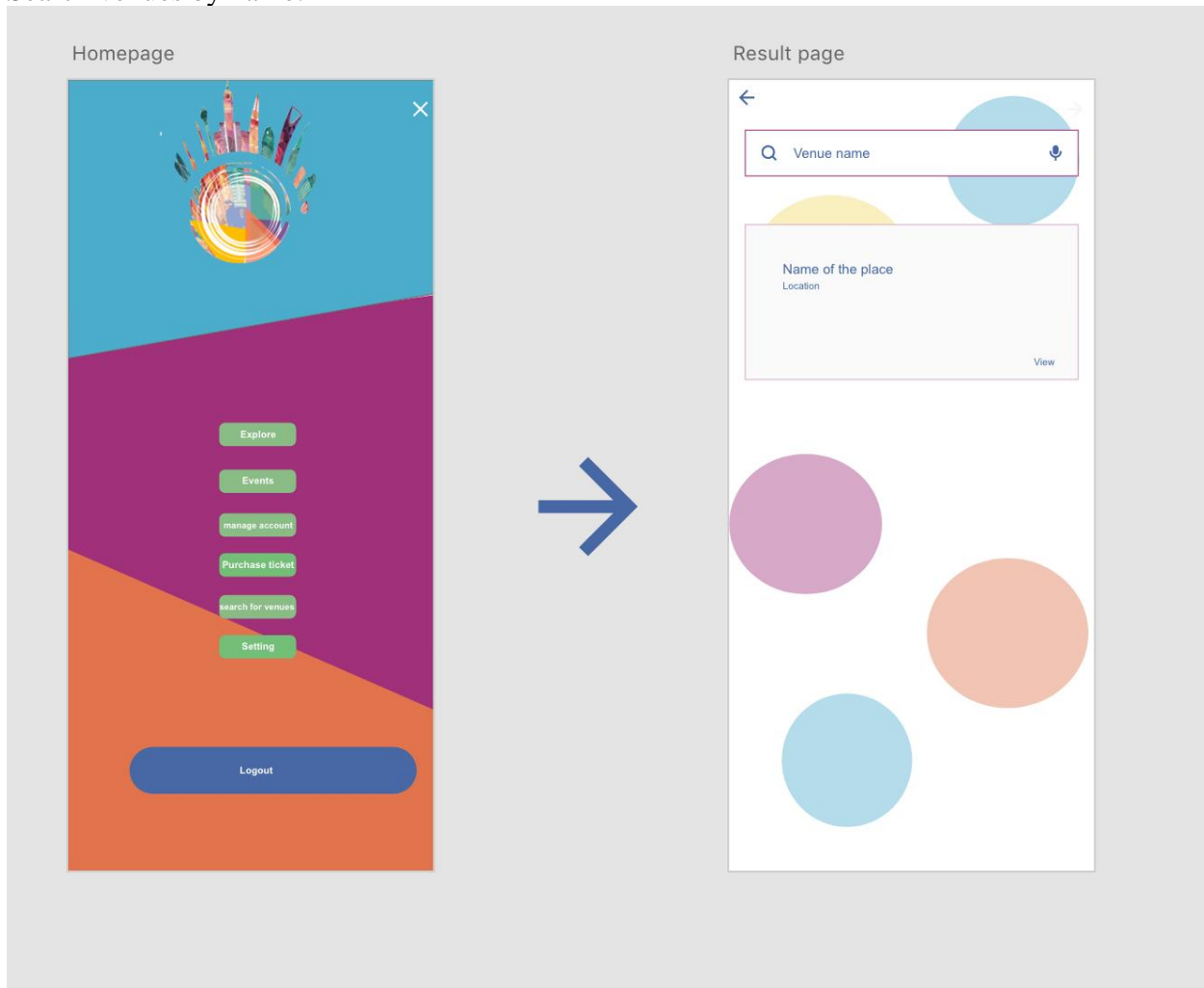
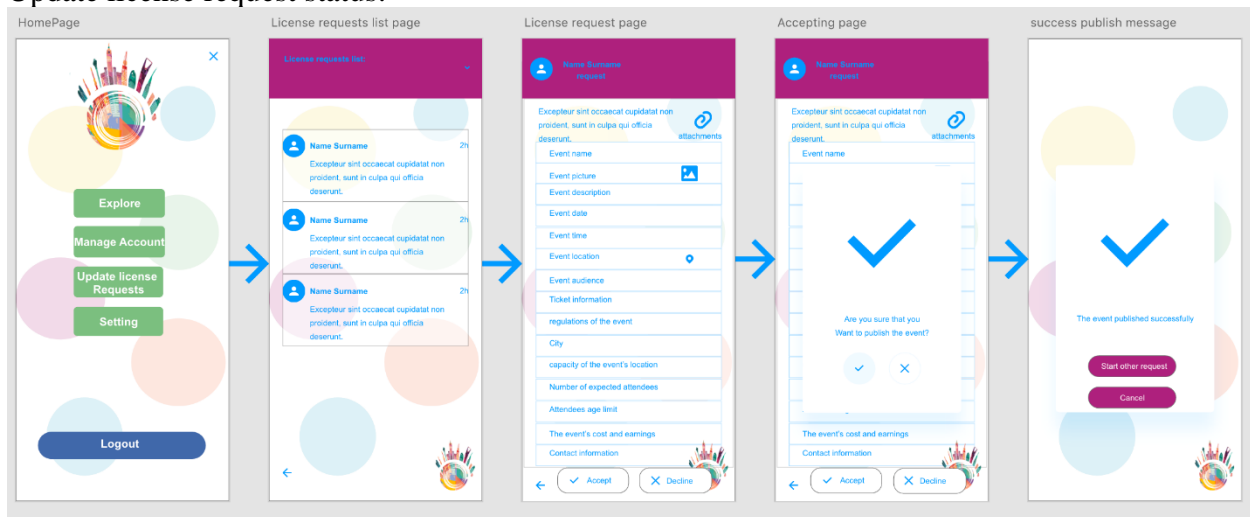Search for venue by name:

Add GEA Staff account:

9 System Mockups

Log-in:

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Search venues by name:

Update license request status:

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Purchase Ticket: