Software Requirement Specifications (SRS)

A- **PURPOSE**:
The purpose of this document is to outline clearly detailed SRS. This SRS will serve to give our audience a full view of the Event Management Software we attend to produce. The audience includes Software producer companies, software products customers and other interested individuals.

B- **SCOPE**:
This software will consist of two main domains which will further consist of several subdomains. These domains will be looked at in several vital views.
- Event creation
- Event attendance

The software will specialize in event management. This software will enable users to plan and manage events efficiently.

1. EVENT CREATION:
Clients (Users) will be able to create event ranging from various categories such as Music, Arts, and Sport and so on. The software allows users to create and edit custom profiles which will give them privileges to add events, delete and modify details of events.

2. EVENT ATTENDANCE:
The software will also allow users to interact or respond to events created by other users. For instance they may want to buy a ticket for a particular event, join that event, view available events, follow other users or make suggestions to other users to join or buy tickets to an event.
The system will also provide some real time functionality to the users to enable notifications. For instance if a user joins an event he/she may want to know if their request has been received successfully and in tike by the system.

C- **FUNCTIONAL REQUIREMENTS:**

Here is a brief description of the main functions we have in our system and their related operations:

Create Event Function:

Description: Will create a new event
Type: User function
Precondition: User must be logged in
Input validation: Name, Location, Category, Date/Time will all be **Strings**. And the field price will be **double.**
Operation: An event will be created by combining the user name and event name as a unique ID to avoid ambiguity.
Output: A **String** printed on the screen as a notification to the user that his new event has been added successfully.
Error: If an error occurs, display the error message and ask user to re-enter the information.

Delete Event Function:

Description: Will delete the event already created
Type: User (creator of event) function
Precondition: User must be the creator of the event in order to delete it.
Operation: Will delete the selected event.
Output: A message will be displayed to the user to confirm that the event has been successfully deleted.
Error: If a user try to delete an event for which he is not the creator, a message error will be shown to the user that he is not allowed to delete that event.

Log In Function:

Description: The log in function will consist of asking the user to enter his username and password.
Type: User Function
Precondition: The username must be an existing one in the website Database as well as the password.
Input validation: The username should be a string of character and unique for each user, so no two users could have the same username. The password will be a string of at least 6 characters and must contain at least one capital letter.
Operation: If all the references enter by the user are correct, he will be successfully logged in.
Output: His account will appear.

Error: If the user mistakenly enters a wrong username or Password, an Error message will be displayed saying <"your Username or Password may be wrong, please try again.">

Sign Up Function:

Description: New user account will be created
Type: User function
Precondition: Must not have a previous account
Input: First name, Last name, Address, City, Email, Phone, User name, Password
Input Validation: First name, last name, Address, City, Email, User name and Password will all be **Strings.**
Operation: As new user account will be created with the user's username as domain name and his password will be stored for later authentication. A profile will also be created for the user's other personal information.
Output: User will be sent straight to his user home page which he will see on the screen.
Error: User will be notified of any errors resulting from wrong input validation or repeated accounts etc.

Edit Event Function:

Description: The user edits his created event

Type: User function

Precondition: User must be logged on and should be the event creator

Input: Name, location, date time, category, price

Input Validation: Name, location, date time, category as Strings and Price as double

Operation: The system shall update the event and notify attendees of the change

Output: The system shall display a success message

Error: The system shall display an error message and ask the user to try again

Search Event Function

Description: The user finds the event he searched for.

Type: User functionality

Pecondition: User must be logged in to his/her account.

Input: Event name, Category, Date, city

Input Validation: Event name, Category, Date and city will all be Strings.

Operation: The system will search in the databae for the event that match the user's specifications or search criteria and return the results related to the search.

Output: Search results will be displayed .

Error: User will be informed with an error message.

Leave Event Function

Description: The user will exclude himself from a previous event he joined.

Type: User functionality

Precondition: User must have joined the event he intends to leave. And he/she must be logged into hi/her account.

Input: Simply click on a leave event button

Input Validatiton:

Operation: The system will remove or exclude the user from the event he/she joined.

                        The system will give him/her option to rejoin.

Output: Message will be displayed informing the user that he has successfully leave the event.

Error: If any error occurs during event leave process. The user will be notified with an error message.

Join Event Function

Description: The user will join an event

Type: User function

Precondition: User must be logged into his/her, and must be his/her first time to join the event

Input: Simply click on join event button

Input Validation:

Operation: The system will include the user to the event attendees.

Output: Message will be displayed informing the user that he has successfully joined an event.

Error: User will be informed with an error message if any occurred during the join event process.

View Event Function

Description: User will be able to view detailes of an event.

Type: User function

Precondition: User must be logged in.

Input: Simply click on event details button.

Input Validation:

Operation: The system will return details of the event the is interested in.

Output: Event details will be displayed..

Error: User will be notified if any error occur.

Buy ticket Function

Description: The user will be given information.

Type: User function

Precondition: User must be logged in and join the event.

Input: Simply clickon buy ticket button.

Input Validation:

Operation: The System will return contact details on where tickets can be payed for.

Output: The system will display the address where user can pay for the ticket.

Error: User will be informed with errors message if any errors occurred during the buy ticket process.