



WE HELP YOUR SPORT EVENT GO LIVE

MSIS 2602-SYSTEM ANALYSIS AND DESIGN PROJECT REPORT

Dr. Yasser Dessouky

Neeraj Bhagchandani Sahil Jain Shalaka Dixit Urvi Munot



Index

1.	Intro	Introduction3				
2.	Busin	ess and System Description	3			
	2.1	Business Description	3			
	2.2	System Description	1			
3.	Funct	ional Requirements	5			
	3.1	Process Oriented5	5			
	3.2	Information Oriented7	,			
4.	Non-F	Non-Functional Requirements7				
	4.1	Operational	7			
	4.2	Performance	7			
	4.3	Security	3			
	4.4	Cultural and Political	3			
5.	Use C	Case Descriptions	3			
6.	Data	Flow Diagrams1	6			
	6.1	Context Diagram1	.6			
	6.2	Level 0 Diagram1	L7			
	6.3	Level 1 Diagrams1	.8			
7.	Data	Dictionary2	21			
	7.1	Data Specification – Data Flows2	1			
	7.2	Data Specification – Data Stores2	22			
8.	User	Interface Design Templates	25			
9.	Outpo	ut Report2	29			
10.	Progr	am Structure Chart3	30			



1. Introduction

SportIT is a Sport Event Management Organization. Our system provides a unified platform for event hosts, teams, audiences and sponsors wherein they can plan, participate, buy tickets and promote the event.

Organizers may not have all the resources at hand to host their event. SportIt helps them organize the event in a more efficient way and target larger audiences through its social share feature.

Various local teams or sport players do not gain recognition because they do not get a big platform to showcase their performance; we provide them with opportunities to prove their worth; local sponsors would get to promote their brand at such events. A win-win for all.

2. Business and System Description

2.1 Business Description

SportIT is a Sport Event Management Organization that Unifies Event Hosts, Sponsors, Teams and Audiences through its online portal enabling Sport Events to go Live. Through the online portal hosts can submit an event proposal, sponsors can register for sponsorship and audiences can book tickets right at their fingertips.

Organizers may not have all the resources at hand to host their event. SportIT helps them organize the event in a more efficient way by providing resources such as referees, coordinators, technical staff etc. SportIT targets larger audiences by use of social media share feature such as Facebook.

We encourage sports so that more local teams can register and gain recognition hence encouraging more players to participate. Local events would provide more opportunities for upcoming players.

Event Sponsors can provide sponsorship in various forms such as monetary, rewards, discount coupons and merchandize. Each sponsor would be featured on the event page exclusively and also at the venue of the event. This would also provide a medium for the



audiences to enjoy the sport entertainment at the same time get familiar to various sponsors and their products.

SportIT would generate revenue from sponsorships, hosts, and audiences.

At the local level tickets would be priced minimal so as to attract more audiences and encourage sports. In case of famous teams playing at bigger venues there would be various tickets available differing in price.

In the future we also plan to provide analytics from the gathered data. Trends such as which local team is most famous, which sport is most liked in an area, which sport is most played in which season, most talented teams, which events bring in the highest revenue, churn ratio for the hosts, etc.

2.2 System Description

SportIT has five users namely Host, Team, Sponsor, Manager and Audience. The system provides a unified platform for these users to interact with each other.

Hosts registers the event through the website. They provide details such as type of sport, tournament, venue, date and time schedule, number of participating teams, budget, rewards for winning teams and additional comments. Hosts can edit the event details. Hosts can cancel the event within 24 hours of registration.

Teams can view the event details & then register its team through the website. They provide details such as names of team members, coaches, team size. They can edit team details. The team can cancel the team registration within 48 hours of the registration. The team can view the current position of the team in the tournament.

Sponsors can view the different events, their venue details and benefits of sponsorship. They can register for sponsoring an event. They select an event

And provide details of sponsorship type (monetary, rewards, discount coupons, merchandize) and amount. They can give additional comments if any. They can edit the sponsorship details within 24 hours of the registration.

The Event Manager can view the different registrations like event, team and sponsor and approve them. The Manager has to make the arrangements as per the requirements. He has to finalize the venue, referees/judges, assign technical staff for that event.

Audiences can view the event details & then purchase tickets for the event through the website. They provide details such as number of tickets, class of the seat, name. A person can buy maximum 20 tickets at a time. A person can cancel the ticket up to 48 hours



before the event and get 50% refund. They can share event details on social networking sites like Facebook and Twitter.

3 Functional Requirements

3.1 Process Oriented

Registering new user

- The system should record user data such as name, phone number, email Id, type of user i.e. audience, host, sponsor, team member at signup into the database.
- The web form should perform validations such as Email validation.
- The system should send an email to the customer to verify his email Id.
- The system should navigate the user to the next page specific to the type of user.

Registering/Cancelling an Event

- The system should record the information entered by the hosts such as preferred venue, type of sport, date& time, maximum number of teams that can participate, budget, rewards for winning teams.
- The system should allow to edit the event details.
- The system should allow to cancel the event within 24 hrs of the registration.
- The system should retrieve event details for all events for that particular host.

Approval of the event

- The system should allot an event manager and send a notification for approval of the event
- The manager should be able to view all the available venues, referees, judges, technicians and coordinators based on the type and date of event.
- The system should allow the manager to set status of the event i.e. approve, deny or pending.
- The system should communicate the decision to the host.

Search for events by location, event name or sport type



- Audience, host, sponsor & team member should be able to search for events from the search bar and apply filters for location and sport type.
- Search could also be carried out by event name.
- The system should navigate to event details page after selection.

Registering\cancelling a sponsorship

- The sponsors should have an option to sponsor an event on the event page.
- The sponsor should be able to see the benefits of sponsorship on the next page.
- The system should record the sponsorship details such as type of sponsorship i.e. monetary, discount coupons, merchandize into the database.
- The system should take digital signature of the sponsor on the Memorandum of Understanding (MOU).
- The system should allow to edit or cancel the sponsorship within 48 hrs of signing the MOU.
- The system should retrieve sponsorship details for all event for that particular logged in sponsor.

Registering\cancelling a participant team

- The team member should be able to register its team for an event.
- The system should record the details entered such as name of other team members, position in the team, etc., into the database.
- The system should allow to edit the team registration.
- The system should allow to cancel the team registration within 48 hrs of the registration.
- The system should retrieve team details and current position of the team in the event for that particular logged in user.

Buying event tickets

- The system should allow audiences to buy tickets at the event page.
- The system should allow a maximum of 20 tickets to be bought by a single person.
- The system should process the payment from the third party credit clearing house and send e-tickets to the users Email Id.
- The system should retrieve the reserved tickets of the logged in user; allow cancellation up to 48 hours before the event.



Sharing Event details

• The system should allow all users to share the event details on social media like Facebook.

3.2 Information Oriented

- The system must be able to detect if the customer has already registered
- The system must retain customer ticket booking history
- The system must update the ticket availability and must be available to new customers at real-time
- The system must be able to provide real-time information of availability of venues, referees
- The system must include budgeted and actual sales of previous event to give estimates for future events
- The system will be able to identify popular reports or events based on ticket booking records
- The system will contain information of performance of all teams and team members individually

4 Non-functional Requirements

4.1 Operational

- The system is compatible with various operating systems like Windows, Mac OS, and Linux.
- The system can run on any Web browser, even on smartphones.
- The system interacts with Third Party Payment Vendor.
- The system send emails to existing user whenever a new event is created.

4.2 Performance

- The system can support 10 users simultaneously.
- The system is available 24 hours per day.
- The system redirects to payment gateway in less than 5 seconds.
- After the event is approved, it is made visible to the users in less than 10 seconds.



4.3 Security

- The event should not be visible to users unless it is approved by the manager.
- Only manager and event host should have access to the financial details/budget related to any event.
- Only manager should have the authority to approve any event, team participation and sponsorship for that event.

4.4 Cultural and Political

- The sponsors should sign the MOU for offering any sponsorship.
- Personal information should be protected in compliance with the Data Protection Act.

5. Use Case Descriptions

5.1 Event Creation

Use Case Name: Event Creation	ID: 1	Importance Level: High
Primary Actor: Host		<u> </u>
Short Description: The host creates an event by giving info	rmation s	uch as preferred venue, sport
type, maximum number of teams allowed to register, budg	get of the	event and date and duration
of that event.		
Trigger: The host decides to create the event		
Type: External		



Major Inputs:			Major Outputs:				
<u>Input</u> <u>Source</u>				<u>Output</u>	<u>Destination</u>		
Event Details Event Data Store				Personal Details	User Data Store		
					Preferred event	Event	Data
					details	Store	
					Event Details	Manager	
					Event	Event	Data
					Edit/Cancellatio	Store	
					n Details		
Major	Steps Performed			Information for Steps			
1.	The host logs into the	system or create an accour	nt,	_	> Persona	l details	
	if not registered.						
2.	Host gives informatio	n such as preferred venue,					
	sport type, maximum	number of teams allowed t	0	> Preferred event details			
	register, budget of the	e event and date and durati	on	١			
	of that event						
3.	Event details are sent	for approval to the manage	er	•	Event de	etails	
4.	The host can edit/can	cel the event details within	24	ļ _	> Event	Edit/Cand	ellation
	hours of creation in ca	ase of pending status of eve	nt		Details	Larry Carre	, charlott
		0 · · · · · · · · · · · · · · · · · · ·			Details		



5.2Event Approval

Use Case Name: Event Approval ID: 2 Importance Level: High

Primary Actor: Manager

Short Description:

The manager will view the details of registered events and approve them based on availability of venue, referee, judges, technicians and coordinators.

Trigger: When the manager gets a notification about creation of an event.

Type: Temporal

Major Inputs:

Input	<u>Source</u>
Newly registered event	Event Data Store
details	
Availability of Venues	Venue Data Store
Availability of	Referee Data Store
Referees/Judges	
Availability of event	Coordinator Data Store
coordinators/technicians	

Major Outputs:

<u>Output</u>	Destination	
Event Approval	Event Data	
and finalized	Store	
venue details		



Major Steps Performed Information for Steps Newly registered event **1.** The system retrieves the details of a newly details registered event from the Event Data Store upon manager login. **2.** The manager will look for the availability of venues Availability of venues based on the proposed event date and type of sport from the Venue Data Store. Availability of **3.** The manager will look for the availability of Referees/Judges referees/judges from the Referee Data Store. Availability of required no **4.** The manager will look for the availability of Event of coordinators/technicians from the Coordinator Coordinators/technicians Data Store. **5.** Based on the availability of Venue, Referee/Judges and coordinators, the manager will approve the Event approval and venue event and update the event status and finalized details venue in Event Data Store



5.3 Registering for Sponsorship

Use Case Name: Registering for Sponsorship ID: 3 Importance Level: High

Primary Actor: Sponsor

Short Description:

The Sponsor searches for the events he is interested in sponsoring, decides to sponsor the event, enters all the sponsorship details like type of sponsorship i.e. monetary, discount coupons, merchandize. These details are recorded in to the Sponsorship data store.

Trigger: When the sponsor decides to sponsor the event.

Type: External

Major Inputs:

<u>Input</u>	<u>Source</u>
List of events	Event Data Store
Status of sponsorship	Sponsor Data Store
Memorandum Of	Event Data Store
Understanding	

Major Outputs:

<u>Output</u>	Destination
Personal	User Data
Details	Store
Sponsorship	Sponsorship
Information	Data Store
Signed	Sponsorship
Memorandum	Agreement
Of	Data Store
Understanding	
Edit/Cancellati	Sponsorship
on Details	Data Store



Major Steps Performed Information for Steps 1. The sponsor logs into the system or create an ▶ Personal Details account, if not registered. 2. The sponsor views the list of upcoming events that List of events interest him. 3. The System asks for sponsorship details such as ____ → Sponsorship Information type of sponsorship, amount & additional comments and records these details into the Sponsorship data store. 4. The system notifies the event manager for Status of sponsorship sponsorship approval. Memorandum Of 5. After approval the sponsor signs the Understanding Memorandum of understanding (MOU) online. 6. The system then records the MOU in the Signed MOU sponsorship agreement data store. 7. The system allows the sponsor to edit/cancel the → Edit/Cancellation Details sponsorship upto 48 hrs in case of pending status of sponsorship.



5.4 Ticket Booking

Use Case Name: Ticket Booking ID: 4 Importance Level: High

Primary Actor: Audience

Short Description: The audience checks out various events and buys tickets for a particular

event

Trigger: The audience decides to book the tickets for an event

Type: External

Major Inputs:

<u>Input</u>	<u>Source</u>	
List of Events	Event Data Store	
Ticket Details	Ticket Data Store	

Major Outputs:

Store
Store
Vendor
Store
Store
,

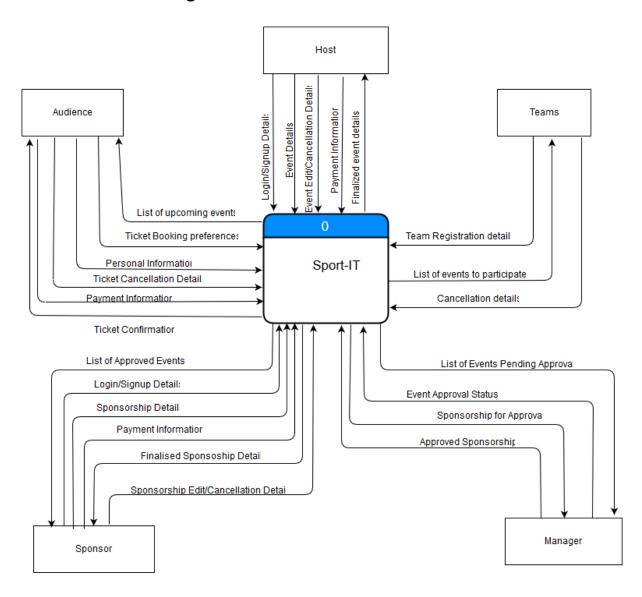


Major	Steps Performed	Information for Steps
1.	The audience searches for interested events	List of events
2.	The audience provides details such as the	> Seat preference, Number of
	number of tickets, seats	tickets
3.	The audience provides personal information if not—	>Personal information
	already logged in	
4.	The audience provides payment details which are —	>Payment information
	authorized by Third Party Vendor.	
5.	The ticket data store is updated with the order —	> Order confirmation
	request.	
6.	The customer is provided the booked ticket \leftarrow	Ticket Details
	details	
7.	The customer can cancel the booking up to 48 hr —	> Cancellation Details
	of the event	



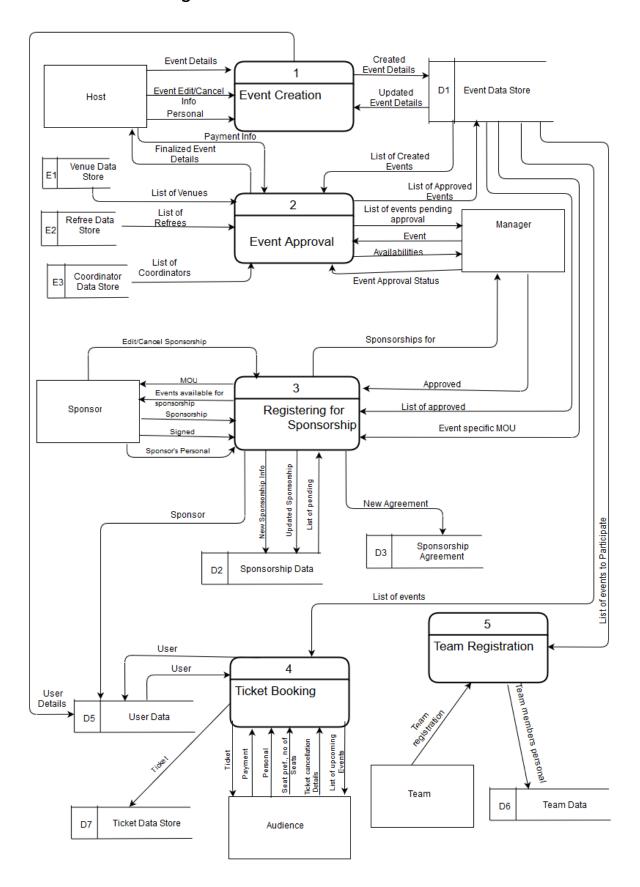
6. Data Flow Diagrams

6.1 Context Diagram





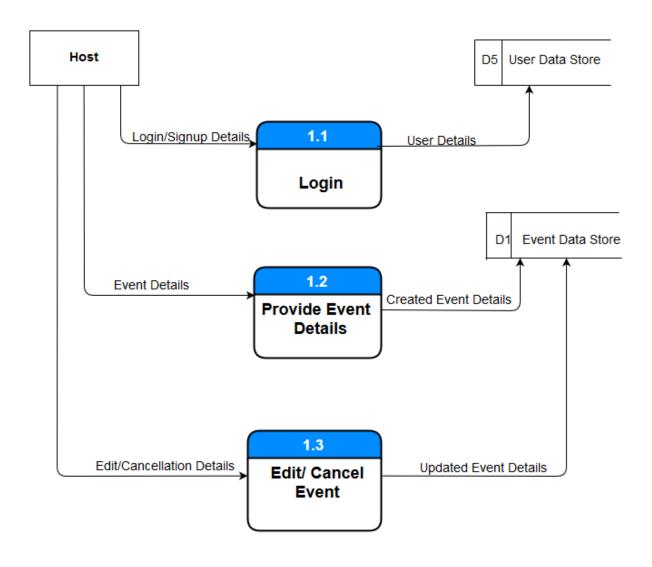
6.2 Level 0 Diagram





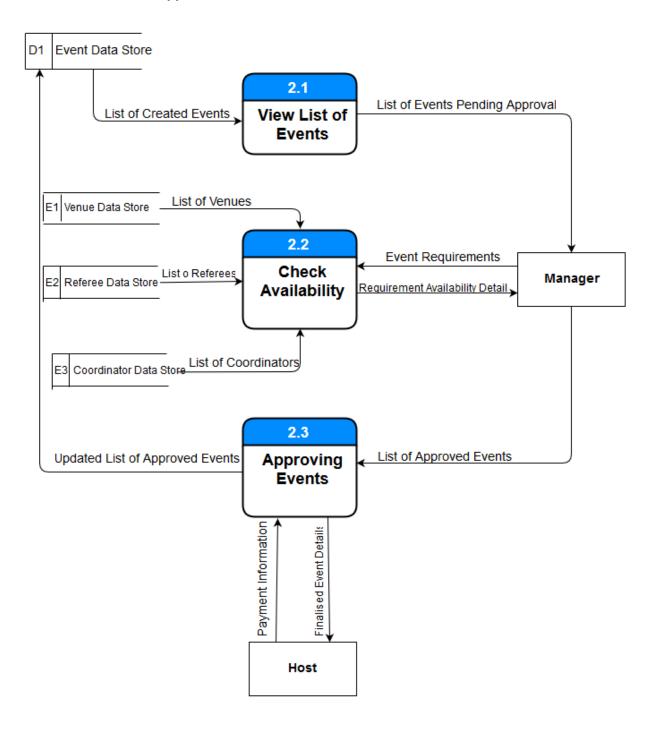
6.3 Level 1 Diagrams

6.3.1 Event Creation



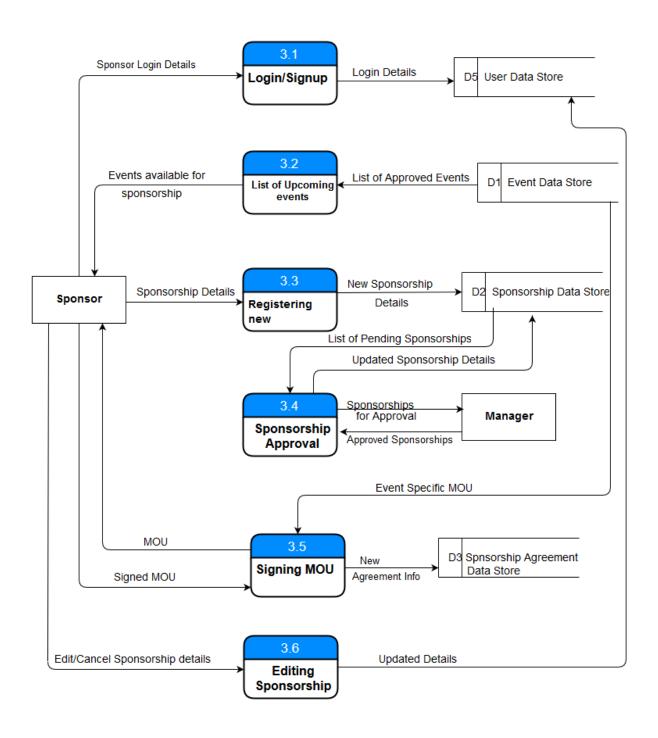


6.3.2 Event Approval





6.3.3 Registering for Sponsorship





7. Data Dictionary

7.1 Data Specification - Data Store

<u>Sr.No</u>	Data store Name	<u>Description</u>	Data Structures Stored
1	Event	The event data store contains the information of the sport events.	Event Details
2	Sponsor	The Sponsor data store contains Information about the sponsors of the Event	Sponsorship Details.
3	Team	The Team data store contains Team related Information	Team Details.
4	User	The User data store contains personal Information of the users i.e. Sponsors, Hosts, and Audiences	User Details
5	Ticket	The Ticket data store contains information of the booked tickets	Order Details
6	Referee	The Referee data store will contain information of the registered referees	Referee Details
7	Venue	The Venue data store will contain Information of the venues.	Venue Details
8	Coordinator	The Coordinator data store will contain information of the registered coordinators and technicians.	Coordinator Details
9	Sponsorship Agreement	This data store contains Sponsor Signed MOU's.	Signed MOU



7.2 Data Specification – Data Flow

<u>Sr-</u>	<u>Data</u>	<u>Description</u>	<u>Data</u>	Data Element	Data Types	<u>Example</u>
<u>no</u>	<u>Stru</u>		<u>Element</u>	<u>Description</u>		
	<u>ctur</u>					
	<u>e</u>					
1	Even	Information about	Event	Name of the	Varchar(50)	Santa Clara Soccer
	t	the newly created	Name	event created by		Tournament
	Deta	event.		the host		
	ils		Event ID	Each event is	Varchar(10)	S158G98
				auto assigned a		
				Event ID to		
				uniquely identify		
				the event		
			Type of	Name of the	Varchar(20)	Soccer
			Sport	sport which will		
				be played in the		
				event		
			Host ID	Unique ID for the	Varchar(10)	H98647L
				Host conducting		
				the event		
			Event	The Time when	DateTime	2015:12:27,17:30
			Start Time	the Events starts		:00
			Event End	The Time when	DateTime	2015:12:29,21:30
			Time	the Events ends		:00
			Preferred	Name of the	Varchar(30)	Buckshaw
			Venue	venue preferred		Stadium
			1 211010	Tondo preferred		



				by the host for		
				the event		
			Budget	The amount	Decimal(7,20)	1000.00
			Dauget	specified by the	Decimal(7,20)	1000.00
				host for		
				conducting the event		
	C	Information also I	Carana		\/ /40\	65007546
2	Spon	Information about	Sponsorsh	Each	Varchar(10)	6598751S
	sors	the sponsorship	ip ID	Sponsorship will		
	hip	details specified by		be uniquely		
	Deta	the sponsor		identified by		
	ils			Sponsorship ID		
			Sponsor ID	Unique ID for the	Varchar(10)	S56275M
				Sponsor offering		
				the sponsorship		
			Event ID	The event for	Varchar(10)	S158G98
				which		
				sponsorship is		
				offered		
			Type of	Describes the	Varchar(30)	Monetory
			Sponsorsh	type of		
			ip	sponsorship		Merchandise
				offered		
			Sponsorsh	The amount	Decimal(7,2)	750.00
			ip Amount	offered by the		
				sponsors for		
				event		
3		Information about	User ID	Auto Assigned ID	Varchar(10)	S56275M
		the different users		to uniquely		



	User	like host, sponsors		identify the		
	Deta	and audience		users		
	ils		User	Name of the	Varchar(20)	Mark Anthony
			Name	User		
			Address	Address of the	Varchar(30)	1050, Benton
				user		Street, SC
			Phone	Contact Number of the user	Integer	6692926406
			User Type	The type as	Varchar(20)	Audience,
				which the user		Sponsor, Host
				has registered		
4	Tick	Information about	Ticket ID	Each ticket will	Varchar(10)	T986367
	et	the ticket booked		have a unique		
	Deta	by the audience		ticket ID		
	ils		User ID	ID of the user	Varchar(10)	U986571H
				who has booked		
				the ticket		
			Event ID	The ID of the	Varchar(10)	S158G98
				event for which		
				tickets are		
				booked		
			Seat	The Seat	Varchar(5)	G-29
			Number	Number booked		
				by the user		
			Ticket	The amount for	Integer	10
			Amount	each ticket		
			Payment	Describes the	Varchar(10)	Paid
			Status	status of		Pending
				payment done		Refunded
				by user		
<u> </u>	L	l .	l	l .	1	ı



8. User Interface Design Template

9.1 Home Page



Upcoming Events...





Create Event

Create a sport tournament or a friendly match. Any sport is welcomed!



Sponsor an Event

Sponsor for our prestigious events and sell your goodies or foodstuff

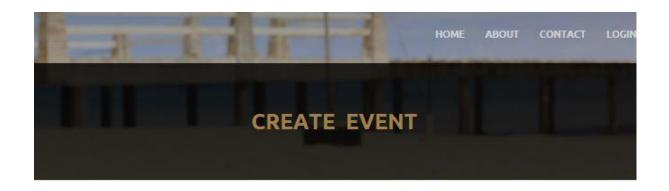


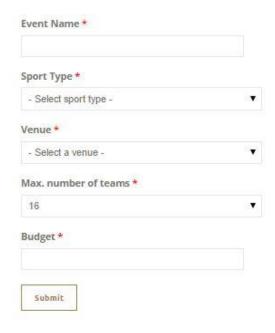
Book Tickets

Book tickets for the upcoming sport event near you



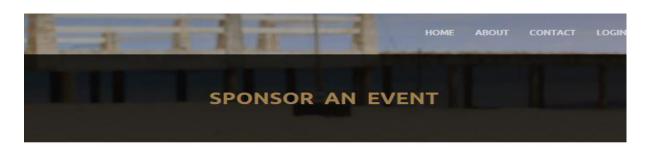
9.2 Create Event







9.3 Sponsor an Event



Santa Clara vs Simpson

Women's Basketball Leavey Center, Santa Clara Friday Dec 4, 2015

Sponsor this Event



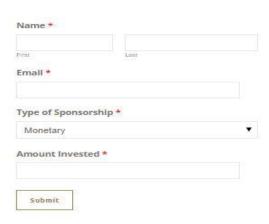
San Jose State vs Hope Int'l

Men's Basketball Spartan Stadium, San Jose Thursday Dec 10, 2015

Sponsor this Event

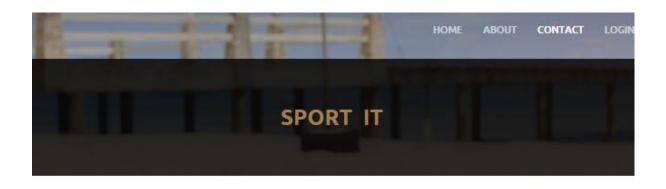


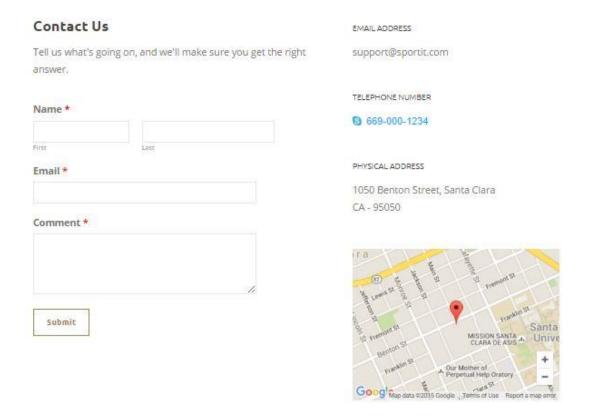






9.5 Contact Us

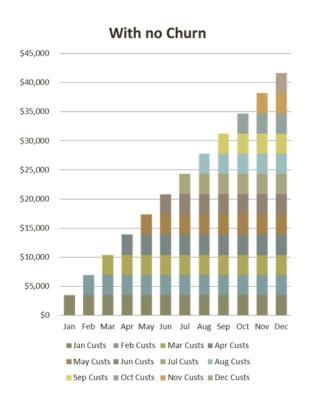




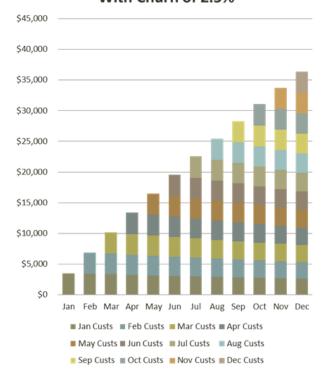


9. Output Report

Revenue by Month



With Churn of 2.5%





10. Program Structure Chart

