**Use Case UC1: Actor buying tickets**

Scope: Web-based

Level: User-goal

Primary Actor: Eventgoer

Stakeholders and Interest:

-Eventgoer: Wants to attend events, having a website that shows all of CofC events will allow them to attend them more efficiently.

-Students at College of Charleston: Students want to know what is happening at CofC and where they can buy their tickets.

-College of Charleston: Want to sell their tickets, and maximize capacity at events

-People who sell tickets: They want people to buy their tickets efficiently and at maximum capacity.

-Players: Want people to attend their events to show support and help fund their sport programs.

-Alumni: Want to know when events are happening and have easier access to buy them. Allows them to form groups easier to attend events.

-Fan interested in the teams playing: Want to see when their favorite teams are playing, and buy tickets to attend those events.

Precondition: Eventgoer hasn't made an account on website.

Success guarantees: Eventgoer information is saved. Able to see events happening and buy tickets. Able to use their Stripe account to buy tickets.

Main Success Scenario (or Basic Flow):

1. Eventgoer enters website.
2. Eventgoer clicks on "Make Account".
3. Prompt pops up, allows them to put in a email and password. Put in information.
4. Eventgoer clicks on finish.
5. Verification email is sent.
6. Eventgoer responds to email, account is verified.
7. Eventgoer is able to go back to website, and login in.
8. Able to browse events and click "buy tickets" for events.

Extensions (or Alternative Flows):

3a. Eventgoer enter wrong password (Didn't follow password specifications).

1) Gets prompted to enter right password.

3b. Eventgoer enter wrong email.

1) Gets prompted to enter right email.

3c. Eventgoer enters already used email.

1) Gets prompted that email is already in use.

5a. Eventgoer delete verification email, and still wants an account.

1) Eventgoer must go back to step 1.

**Use Case 2: Fan looks for group**

Scope: Web-based

Level: User-goal

Primary Actor: Fan interested seeing his team playing.

Stakeholders and Interest:

-Eventgoer: Wants to attend events, having a website that shows all of CofC events will allow them to attend them more efficiently.

-Students at College of Charleston: Students want to know what is happening at CofC and where they can buy their tickets.

-College of Charleston: Want to sell their tickets, and maximize capacity at events

-People who sell tickets: They want people to buy their tickets efficiently and at maximum capacity.

-Players: Want people to attend their events to show support and help fund their sport programs.

-Alumni: Want to know when events are happening and have easier access to buy them. Allows them to form groups easier to attend events.

-Fan interested in the teams playing: Want to see when their favorite teams are playing, and buy tickets to attend those events.

Precondition: Eventgoer has an already existing validated account.

Successes Guarantee: They are able to find their favorite team and buy tickets to attend those events.

Main Success Scenario:

1. Fan enters website.
2. Fan clicks to login and enter their credentials to login.
3. Fan logins. Fan goes to search for their team.
4. Fan finds their favorite team and dates they'll be playing.
5. Fan selects "Add tickets to cart".
6. Fan clicks on cart, and then checkout.
7. Shows fan tickets they are buying, over-all cost, and asking to select Stripe to pay for it.
8. Fan selects Strips, verifies credentials, and checks out.
9. Sales is completed, fan gets more ticket information via email. Fan is happy.

Extensions:

\*a. Fan has an account.

2a. Enters wrong password.

1) Clicks on forgot password

2) Gets asked for email.

3) Reset password email is sent

1. Fan looks for team that doesn't exist.
   1. Gets prompted that team doesn't exist.

5a. Fan tries to buy max amount of tickets.

1) Allows the maximum amount for those tickets to be bought.

5b. Fan wants to remove tickets.

1) Fan goes to cart, and selects "-" near ticket to remove them.

5c. Fan leaves website after selecting tickets.

1) Tickets are saved in the cart.

8a. Stripe account doesn't exist.

1) Gets prompted that Stripe account doesn't exist.

8b. Fan wants to buy other tickets also.

1) Rather than proceeding to cart, fan searches for other tickets and buy them.

**UC 3: Wants to buy specific seats for tickets**

Scope: Web-based

Level: User-goal

Primary Actor: Alumni

Stakeholders and Interest:

-Eventgoer: Wants to attend events, having a website that shows all of CofC events will allow them to attend them more efficiently.

-Students at College of Charleston: Students want to know what is happening at CofC and where they can buy their tickets.

-College of Charleston: Want to sell their tickets, and maximize capacity at events

-People who sell tickets: They want people to buy their tickets efficiently and at maximum capacity.

-Players: Want people to attend their events to show support and help fund their sport programs.

-Alumni: Want to know when events are happening and have easier access to buy them. Allows them to form groups easier to attend events.

-Fan interested in the teams playing: Want to see when their favorite teams are playing, and buy tickets to attend those events.

Precondition: Alumni has account.

Success guarantees: Alumni able to choose and receive tickets with specific seats.

Main Success Scenario (or Basic Flow):

1. Alumni enters website.
2. Searchers for team. Clicks buy tickets.
3. Clicks on choose seats.
4. Chooses seats for all of the alumni.
5. Tickets will equal to amount of seats chosen.
6. Checks out.

Extensions:

2a. Searches for teams that don't exist.

1. Gets prompted that it cant find teams.

4a. Tries to buy all the seats, even ones already selected.

1)Gets told it can't buy seats already selected.

4b. Doesn't care what seats are chosen, doesn't select any.

1. Seats are randomly given.

4c. Tries to buy tickets, buy while tying to buy their seats someone else got their seats before them.

1. Gets prompted that seats are already selected.

4d. Alumni picks seats, but wants different seats.

1. Alumni clicks option "change seats" to change seats.

5a. Alumni leaves after choosing seats.

1. Seats are saved in cart.

5b. Alumni returns after selecting seats and leaving, but find seats are now not available.

1. Gets prompted that seats are unavailable.
2. Alumni goes to cart, click on tickets, and select new seats.

**Use Case UC4: Student buys tickets, tickets link to Google Calender**

Scope: Web-based

Level: User-goal

Primary Actor: Student

Stakeholders and Interest:

-Eventgoer: Wants to attend events, having a website that shows all of CofC events will allow them to attend them more efficiently.

-Students at College of Charleston: Students want to know what is happening at CofC and where they can buy their tickets.

-College of Charleston: Want to sell their tickets, and maximize capacity at events

-People who sell tickets: They want people to buy their tickets efficiently and at maximum capacity.

-Players: Want people to attend their events to show support and help fund their sport programs.

-Alumni: Want to know when events are happening and have easier access to buy them. Allows them to form groups easier to attend events.

-Fan interested in the teams playing: Want to see when their favorite teams are playing, and buy tickets to attend those events.

Precondition: Student has logged in.

Success guarantees: Student buys tickets and it link to their google calendar.

Main Success Scenario (or Basic Flow):

1. Student looks up tickets.
2. Student finds tickets.
3. Student clicks purchase tickets, and select seats.
4. Student goes to pay.
5. After paying, student selects option to link it to their google calendar.
6. Calendar gets updated with dates of the event.

Extensions:

5a. Google calendar couldn't be linked.

1. Student makes sure that a gmail account is associated with the account.

1a. Gmail wasn't used. Student used a yahoo email.

1. Prompt student that this isn't 2008, and ask to use gmail account.

5b. They can't access their Google Calendar.

1. Student has to fix issue with Google.

Operation: login(userName,password) Cross References: UC1: Actor Buys a Ticket Preconditions: Eventgoer has gone to the web app

Postconditions: - The user has been authenticated.

Operation: searchEvents(startDate,endDate) Cross References: UC1: Actor Buys a Ticket Preconditions: Eventgoer has registered for an account and has successfully logged in.

Postconditions: - The user has been returned a list of events that fall between the dates the user set.

Operation: selectEvent(eventID) Cross References: UC1: Actor Buys a Ticket Preconditions: Eventgoer has been given a list of events, and has clicked on an event they wish to know more about.

Postconditions: - The user has been returned the price of the selected event - The user has been returned the date of the selected event - The user has been returned available seats of the selected event

Operation: buyTicket() Cross References: UC1: Preconditions: Eventgoer has selected the event and number of tickets they wish to purchase

Preconditions: - The user is able to use their Stripe account to purchase the correct number of tickets - The user is emailed an electronic receipt of proof of their purchase - The system's catalog of tickets is adjusted for the amount of tickets remaining.

Operation: selectSeat(seatNum) Cross References: UC3: Actor wants to buy specific seats for tickets Preconditions: Eventgoer has selected an event, and has selected the number of tickets they wish to purchase.

Postconditions: - The user has been returned a seating map of the seats currently available for reservation - The user makes a selection of seats for reservation, and the system reserves them for the ticket holders

