

## Functional—what the system will do

### 1.0 The system will display events and their discount codes/coupons. (Primary/Core)

1.1 The system will provide users with a ticket purchasing outlet to view and attend events.  
(Primary/Core)

1.1.1. The system should validate eligibility based on user information that's processed.  
(Secondary)

1.1.1.1 S.N.A.P. number should be entered with whole number values only.

1.1.1.2 User's full name is entered and should contain at most 255 characters (VARCHAR(255)).

1.1.1.3 Zipcode is entered and should be a U.S.P.S. zipcode with exactly five characters (CHAR(5)).

1.1.2 The system should apply appropriate discounts to qualifying users. (Secondary)

1.1.3 The system should provide purchase options for additional tickets (i.e., groups).  
(Secondary)

1.1.3.1 If the group is very large (e.g., a church group), the system should direct the user to the participating sponsor.

1.2 The system will grant permission to enter the event by supplying the user with a ticket.  
(Primary/Core)

1.2.1 The system should provide ticket holders a way to save the ticket for offline use.  
(Secondary)

1.3 The website will collect data (e.g., metrics, demographics, location, etc.). (Primary/Core)

1.3.1 User data should be aggregated, formatted, and sent to participating organizations.  
(Secondary)

## Performance—how quickly or how well the system will do it

### 2.0 The website will be reliable and will have a usable front-end user interface. (Primary/Core)

2.1 The website will be lightweight (< 1500Kb; average website size is 1996Kb). (Primary/Core)

2.1.1 The website should require users to fill out an online form. (Secondary)

2.1.1.1 Users should be able to click on the "submit" button to send their input over the web server.

2.1.1.2 The website should save and store information within five minutes.

2.1.2 The website should run smoothly on networks prior to 4G or 5G. (Secondary)

2.2 The website will be mobile friendly. (Primary/Core)

2.2.1 The system should check how responsive the website is. (Secondary)

2.2.1.1 The system should look into media queries that make the website mobile-first.

2.1.1.1.1 Media queries contain the keyword, "min-width."

2.2.1.2 The system should look into viewport settings that make the website scalable across different screen sizes.

2.2.1.2.1 The viewport's width should be equal to the device's width.

2.2.1.2.2 The viewport's height should be equal to the device's height.

2.2.1.2.3 The viewport's initial scale should be 1 or 1.0.

2.2.2 The system should comply with accessibility standards. (Secondary)

2.2.2.1 The system should check for the language the website uses.

2.2.2.1.1 The website's source code contains the line, "<html lang='en'>."

2.2.2.2 The system should check whether the website uses the character-encoding format, UTF-8.

2.2.2.3 The system should check whether the website has a title.

2.2.2.4 The system should associate html-element tags with corresponding parts of the website.

2.2.2.4.1 <header> and <footer> tags should be used for the website's header and footer, respectively.

2.2.2.4.2 Block elements (e.g., <main>, <content>, <section>, <div>) should be used for the website's body.

2.2.2.4.3 <aside> tags should be used for side panels, which will help further simplify web navigation.

2.2.2.4.3.1 Side panels should contain icons and images for users to click on.

2.2.2.4.3.1.1 Icons and images should direct users to the appropriate section on the website.

## **Business—constraints or policies that must be enforced**

### **3.0 The system will allow stakeholders to conveniently access their accounts, and manage their discount offers. (Primary/Core)**

3.1 The pass must be entered into the system, which uses the output to help determine the discount. (Primary/Core)

3.1.1 Pass should be affiliated with a participating organization.

3.1.1.1 Individual QR codes should be used to validate the pass.

3.1.1.1.1 If the Pass is valid, the user should be directed to a page that confirms the validation and states which discount is applied.

3.1.1.1.2 If the Pass is invalid, the user should receive an error message telling him/her to re-scan.

3.2 There needs to be connection to the ticketing system through a Wi-Fi system, accessible kiosks, or a ticketing agent for those who need to purchase a ticket to enter the venue. (Primary/Core)

3.2.1 If a Wi-Fi system is provided, users enter username, password, and for secure connection, the certificate.

3.2.2 If kiosks are available, users should have a self-explanatory onboarding experience.

3.2.3 If a ticket agent is available, users should have convenient access to the agent who confirms the status: "ticket has been successfully purchased."

3.3 Participating organizations will have the ability to adjust discounts. (Primary/Core)

3.3.1 Sponsors should be able to log into their accounts, and manage their discount offers.

3.3.1.1 Sponsors fill out a web form that can be accessed through their account.

3.3.1.1.1 Submitting the form should update both the database and the website to reflect current discounts.

3.4 Participating organizations must be given the ability to opt in/out of the system. (Primary/Core)

3.4.1 New sponsors can easily become a partner by getting in touch with the main agency. (Secondary)

3.4.1.1 The website should have a "Contact"/"Contact Us" page with available contact information.

3.4.1.1.1 Each contact's email(s) and any personal website provided should be set as links for readily access.