Number	Name	Requirement	Priority	Rationale	Author
		Accounts			
1	Create Account	The system shall allow a new user to register with the following information: First Name * Last Name* email* phone numer (See Requiremnt 2 for format) birthday date* (See Requiremnt 3 for format)	1	There need to be a way to associate the name with the users saved events	
2	edit profile	The user shall be able to edit their profile information	2	Allows users to keep their information accurate	
3	Phone Number Format	The system shall validate that Phone Number consists of exactly 10 digits, with the first digit between 1–9.	1	Guarantees valid, reachable contact information.	
4	Registered users	The system shall let a registered user log in using Email and Password.	1	Basic security gate for personalized features.	
5	failed login	The system shall lock out a user account for 15 minutes after 5 consecutive failed login attempts.	2	Prevents brute-force attacks.	
6	Password reset	The system shall allow the user to reset their password via email	2	Provides essential accout recovery function	
7	Delete account	The system shall allow users to delet their account permadently	3	Complies with privact expectations and data control rights	
8	Birthday Date Format	The system shall validate Date of Birth is in DD-MM-YYYY format and that the user is at least 13 years old.	2	Enforces age requirements and format consistency.	
9	Verify student account	The user shall put in their student email to verify their status by domain	2	Ensures only verified students get access to student only events	
10	Linking tickets	The system shall display a "Buy Tickets" button on each event's detail page that links to the event's official vendor checkout URL.	1	Provides a zero-effort, real- world purchase path without handling payments in-house.	
11	buy tickets	The "Buy Tickets" button shall open the vendor URL in a new browser tab or window.	2	Keeps users' context in EventScape while they complete the purchase externally.	
12	submission	Upon "submission," the system shall display a confirmation message: "Your X ticket(s) for [Event Name] have been booked."	3	Gives visual feedback that the demo checkout "worked."	
13	buy tickets/style	The "Buy Tickets" button shall be styled consistently with other primary actions and be visible on all event detail layouts	1	Ensures a clear, accessible call-to-action across all devices	
14	Favorites	The system shall let users mark events as Favorites and view a list of their favorites sorted by date. sorted by the same category (See Event Requirements 1)	2	Allows users to bookmark events they plan to attend.	
15	Friends	The system shall show friends' recently favorited events in a shared Activity Feed.	3	Increases engagement through social proof.	
16	Friend requests	The system shall let users send and manage Friend Requests by Username or Email	3	Enables social discovery and shared event planning.	
		Events			
1	Events	Users shall be able to filter events by category: -Music Events -entertainment -food -Sports	1	Users should be able to discover events that align with their interests	
2	Music Events	Music events shall be filtered by genre: rap, pop, country, ethnic, and R&B	2	Gives more precise control within music.	
3	Entertainment	Entertainment events shall be filtered by type: Park, Theater, Arcades, Movie theater	3	would give more control for types of entertainment	
4	Food	Events shall be filtered by type	3	Would give more control for ethnicity of food	
5	Sports	Sporting events can be shown based on type: Basketball, Football, Softball, Soccer -subclass of level type: Easy, Intermediate, Pro	3	Would give more control for the user	
6	Ratings	The system shall let users submit a Rating (1–5 stars)	2	This adds user feedback for users who are undecided for an event	
7	Reviews	Text Review (max 500 characters) for any event they attended.	3	this adds user feedback for users who are undecided for an event	
8	Filters	Events shall include filters for kid-friendly, senior-friendly, or family-safe events: kid friendly: ages 5-13 senior-friendly: 50- up family safe: all ages	2	This allows users to view events tailored to there specific age group	
9	Average rating	The system shall display the Average Rating on each event's detail page, calculated from all submitted ratings.	3	Gives a quick quality signal at a glance.	
10	Event details	The system shall display full Event Details Name Date/Time Venue Address Average Rating Map Description	1	Users need all relevant info in one place.	
11	System	The system shall validate the time by the format xx: xx p.m/ am from 0-9	1	propet time format	
12	Capacity limit	Host shall set maximum attendee count	2	Controls crowd size	
13	Waitlist system	Users shall be added to waitlist if event is full	2	This feature keeps users intrested	
14	Event reminder	The system shall send reminders to users attending said event	2	This feature will help reduce no-shows	
15	Notifications	The system shall support optional push notifications for upcoming favorited or nearby events -favorites -date chages	3	Keeps users engages and informed	
17	Calendar sync	Users shall be able to sync rvsp events to their calendar	3	This feature will help users stay organized	
		Admin			
1	Host	The system shall let Event Hosts create new events by entering the following Event name date location description	1	This allows the user who is creating the app to host an event and change it if needed	
2	Adding Events	The system shall validate Event Date in DD-MM-YYYY format prevent dates in the past The user shall write a descriptions of the event (max words in requirement 5)	2	Ensures events are scheduled correctly.	
3	Date	The date shall contain 8 numbers ranging from 0-9 xx-xx-xxxx	2	This allows the the user to set a specific date for the event to take place on	
4	Description	The user shall be able to write a description of a maximum of 500 words	2	This allows the user to write a descriptions to explain whaty their event was	
5	edit/location	The system shall allow Hosts to edit or delete events they have created.		Enables correction and maintenance of event listings.	

		Location		
1	interactive map	The system shall display an interactive map of event venues using the Leaflet JavaScript library and OpenStreetMap tiles.	1	Provides a zero-cost, CDN-only mapping solution without API keys.
2	latitude and longitude	The map shall initialize centered on the user's city (latitude/longitude) with a default zoom level of 12.	1	Gives a consistent starting view for most local users.
3	event marker	The system shall plot each event as a marker on the map at its latitude/longitude coordinates.	1	Visually locates events for easier discovery.
4	events name	Each marker shall display an event's name (and date/time) in a popup when clicked.	1	Allows users to get key details without leaving the map view.
5	address	If only an address is provided, the system shall geocode it via the Nominatim OpenStreetMap API (or a server-side cache) to obtain latitude/longitude.	3	Ensures hosts can enter plain addresses and still see them on the map.
6	geocoding	The system shall cache geocoding results in memory (or server-side storage) to avoid exceeding Nominatim's rate limits.	3	Prevents service outages and respects external-API usage quotas.
		Search and Find		
1	Search Bar	The system shall allow users to search for events by title location or host name	1	Makes finding specific events easier
2	Nearby Events	The system shall show a list of events within a 10 mile radius of the users current location	2	Encourges attendance at nearby events
3	Trending Events	The system shall display a list of trending events based on number of favorites and ratings	3	promotes popular or high rated events
4	Category search	The system shall allow users to search events by category	1	This allows for users to browse based on interests
5	Date range	Users shall filter events by a custom date range	2	Allows users to plan ahead
		Nonfunctional Requirements		
1	Preformance	The system shall load all events listing within 2 seconds	1	Ensures a responsive user experience
2	Availability	The system should be available most of the time especially	2	Ensures the system is reliable duing trypical usuage hours
3	Security Password	The system shall store password using secure hashing	1	Protects sensitive user data
4	Data Storage	The system shall store in a cloud hosted database: event user data	2	Ensures data persistence and remote access
5	Accessibility	The system shall support basic screen reader navigation	2	Ensures usability for users with disabilities

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