

## Design Document – Event Ticketing System (UI/UX)

### 1. Overview

- Web-based event ticketing platform for visitors, users, and admins.
- Core flows: browse events, view event details, purchase tickets, manage tickets and payments, manage events/venues/categories, view analytics.

### 2. Design System

#### 2.1 Color Palette

- Primary: Blue #2563eb (main actions, highlights)
- Primary Hover: #1d4ed8
- Secondary (Success): Emerald #10b981
- Background (Light): #ffffff
- Background (Dark / Optional): #0f172a
- Surface: #f8fafc
- Text Primary: #0f172a
- Text Secondary: #64748b
- Borders: #e2e8f0
- Status: Error #ef4444, Warning #f59e0b, Info #3b82f6

#### 2.2 Typography

- Font family: Inter, system-ui, sans-serif
- H1: 48px, bold
- H2: 36px, bold
- H3: 28px, semibold
- H4: 20px, semibold
- Body: 16px, regular

- **Body Small:** 14px, regular
- **Caption:** 12px, regular

## 2.3 Layout and Spacing

- **Grid:** 12 columns, 24px gutter, max width 1200–1280px
- **Spacing scale:** 4, 8, 16, 24, 32, 48, 64px
- **Border radius:** 4px (small), 8px (medium), 12px (cards), 16px (large), full (pills)
- **Shadows:** subtle elevation for cards, stronger on hover

## 2.4 Core Components (Visual Style)

- **Buttons:** solid primary, outline, ghost, danger; rounded 8px; clear hover/disabled states.
- **Inputs:** 1px border, 8px radius, 12–16px padding, blue focus ring, red error border.
- **Cards:** white surface, 12px radius, medium shadow, 24px padding, hover scale and shadow.
- **Badges/Chips:** pill or 8–12px radius, small padding, category/status colors.
- **Navigation:** top bar for public/user; left sidebar for admin.

## 3. Screen Set – Wireframes and Mockups

### 3.1 Public (Unauthenticated)

- **Landing / Home**
  - Hero banner with featured event.
  - Global search.
  - Category chips row.
  - Featured and upcoming event cards.
- **Events Listing**
  - Filters (category, date range, venue, price).
  - Search and sort.
  - Event grid with pagination or load-more.
- **Event Detail**
  - Hero image and title.

- Date, time, venue, category, price, availability.
- Description section.
- Ticket purchase panel (quantity, total, CTA).
- Related events.
- **User Registration**
  - Form: username, email, password, confirm password.
  - Terms checkbox and error messaging.
- **User Login**
  - Form: email, password.
- **Admin Login**
  - Admin-specific login styling and labels.

### **3.2 User (Authenticated)**

- **User Dashboard**
  - Summary cards (upcoming events, total tickets).
  - Tabs or sections: My Tickets, Payments, Profile.
- **My Tickets**
  - Tabs: Upcoming, Past, All.
  - Ticket cards with event info, date, status, actions (view/download/cancel if applicable).
  - Ticket detail view with QR/code and event details.
- **My Payments**
  - Table: payment ID, event, amount, method, date, status, action (view receipt).
  - Filters by date/status.
- **Ticket Purchase**
  - Event summary.
  - Quantity selector.
  - Price breakdown (subtotal, fees, total).

- **Payment**
  - Order summary.
  - Payment method and card/billing form.
  - Confirmation section for final review.
- **Purchase Confirmation**
  - Success message, order number, event summary, total.
  - Links to view ticket and go to My Tickets.
- **Settings**
  - Profile (username, email, avatar).
  - Security (change password).

### 3.3 Admin

- **Admin Dashboard**
  - Stat cards (events, tickets sold, revenue, active users).
  - Charts (revenue over time, tickets by category).
  - Recent activity list.
- **Events Management**
  - Events table with filters and search.
  - Columns: name, date, venue, category, tickets sold, status, actions.
  - Event create/edit form: name, date/time, category, venue, description, image, base price, total tickets.
- **Venues Management**
  - Table: name, address, capacity, actions.
  - Venue create/edit form.
- **Categories Management**
  - Table: name, icon, description, actions.
  - Category create/edit form.
- **Tickets Management (Admin)**

- Table: ticket ID, user, event, purchase date, status, actions.
- **Payments Management (Admin)**
  - Table: payment ID, ticket/event, amount, method, date, status.
  - Summary totals.
- **Users/Admins Management**
  - Users list (basic info, status toggle).
  - Admins list (role, status).
- **Reports & Analytics**
  - Filters (date range, category, venue).
  - Charts and key metrics (top events, revenue by category, user activity).
  - Export controls.
- 4. Component Library (Visual Definitions)**
- **Navigation**
  - Public/user top navbar: logo, nav links, auth actions, user menu.
  - Admin sidebar: icons + labels, collapsed/expanded states.
- **Event Card**
  - Image, title, date/time, venue, category badge, price, CTA.
- **Ticket Card**
  - Event summary, purchase date, status, ticket ID, actions.
- **Stat Card**
  - Icon, label, primary value, delta indicator.
- **Form Elements**
  - Text input, password input, select, date picker, textarea, toggle/switch.
- **Tables**
  - Header styles, zebra rows, hover states, sort icons, pagination controls.
- **Feedback**
  - Toasts/alerts (success, error, info, warning).

- Modal/dialog with title, body, primary/secondary actions.
- Loaders (spinners), skeleton blocks for cards and rows.
- Charts
  - Line, bar, pie/area charts using primary/secondary colors.

## 5. Interaction, States, and Responsiveness

### 5.1 States

- Buttons: default, hover, active, disabled, loading.
- Inputs: default, focus, filled, error, disabled.
- Lists/tables: loading skeleton, empty state, error state.
- Tickets and payments: visual status badges (success, pending, failed, refunded, canceled).

### 5.2 Behavior

- Sticky purchase panel on Event Detail (desktop) and fixed bottom CTA on mobile.
- Clear success pages after actions (purchase, event create/edit, profile save).
- Confirm dialogs for destructive actions (delete, cancel).

### 5.3 Responsiveness

- Mobile: single-column layouts, stacked content, bottom-fixed CTAs for critical actions.
- Tablet: two-column where applicable (filters + list, summary + form).
- Desktop: multi-column grids, full sidebar navigation for admin, wide tables and charts.

## EVENT TICKETING SYSTEM WIREFRAME:

<https://www.figma.com/design/fPIX8TWBIFeoPdbCeduW3S/EVENT-TICKETING-SYSTEM?node-id=0-1&t=7UPC0VlgHi4tLWJj-1>