

Campus Flow - Complete Source Code Documentation

****Project:**** Campus Flow - University Event & Venue Management System

****Date:**** 2025

****Version:**** 1.0

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Frontend Configuration

package.json

```
``json
{
  "name": "my-v0-project",
  "version": "0.1.0",
  "private": true,
  "scripts": {
    "build": "next build",
    "dev": "next dev",
    "lint": "eslint .",
    "start": "next start"
  },
  "dependencies": {
    "@hookform/resolvers": "^3.10.0",
    "@radix-ui/react-accordion": "1.2.2",
    "@radix-ui/react-alert-dialog": "1.1.4",
    "@radix-ui/react-aspect-ratio": "1.1.1",
    "@radix-ui/react-avatar": "1.1.2",
    "@radix-ui/react-checkbox": "1.1.3",
    "@radix-ui/react-collapsible": "1.1.2",
    "@radix-ui/react-context-menu": "2.2.4",
    "@radix-ui/react-dialog": "1.1.4",
    "@radix-ui/react-dropdown-menu": "2.1.4",
    "@radix-ui/react-hover-card": "1.1.4",
    "@radix-ui/react-label": "2.1.1",
    "@radix-ui/react-menubar": "1.1.4",
    "@radix-ui/react-navigation-menu": "1.2.3",
    "@radix-ui/react-popover": "1.1.4",
    "@radix-ui/react-progress": "1.1.1",
    "@radix-ui/react-radio-group": "1.2.2",
    "@radix-ui/react-scroll-area": "1.2.2",
    "@radix-ui/react-select": "2.1.4",
    "@radix-ui/react-separator": "1.1.1",
    "@radix-ui/react-slider": "1.2.2",
```

```

"@radix-ui/react-slot": "1.1.1",
"@radix-ui/react-switch": "1.1.2",
"@radix-ui/react-tabs": "1.1.2",
"@radix-ui/react-toast": "1.2.4",
"@radix-ui/react-toggle": "1.1.1",
"@radix-ui/react-toggle-group": "1.1.1",
"@radix-ui/react-tooltip": "1.1.6",
"@vercel/analytics": "latest",
"autoprefixer": "^10.4.20",
"class-variance-authority": "^0.7.1",
"clsx": "^2.1.1",
"cmdk": "1.0.4",
"date-fns": "4.1.0",
"embla-carousel-react": "8.5.1",
"input-otp": "1.4.1",
"jspdf": "latest",
"lightningcss": "^1.30.2",
"lucide-react": "^0.454.0",
"next": "^14.2.4",
"next-themes": "latest",
"react": "^18.2.0",
"react-day-picker": "9.8.0",
"react-dom": "^18.2.0",
"react-hook-form": "^7.60.0",
"react-resizable-panels": "^2.1.7",
"recharts": "2.15.4",
"sonner": "^1.7.4",
"tailwind-merge": "^2.5.5",
"tailwindcss-animate": "^1.0.7",
"vaul": "^1.1.2",
"zod": "3.25.76"
},
"devDependencies": {
"@tailwindcss/postcss": "^4.1.9",
"@types/node": "^22",
"@types/react": "^19",
"@types/react-dom": "^19",
"postcss": "^8.5",
"tailwindcss": "^4.1.9",
"tw-animate-css": "1.3.3",
"typescript": "^5"
}
}
}

```

next.config.mjs

```

````javascript
/** @type {import('next').NextConfig} */
const BACKEND_URL = process.env.BACKEND_URL || 'http://localhost:3001'

const nextConfig = {
 typescript: {
 ignoreBuildErrors: true,
 },
 images: {
 unoptimized: true,
 },
 async rewrites() {
 return [

```

```

 {
 source: '/api/:path*',
 destination: `${BACKEND_URL}/api/:path*`,
 },
],
},
}

```

```
export default nextConfig
```

```

...

middleware.ts

```

```

``typescript
import { NextResponse } from 'next/server'
import type { NextRequest } from 'next/server'

export function middleware(request: NextRequest) {
 // Redirect root path to dashboard
 if (request.nextUrl.pathname === '/') {
 return NextResponse.redirect(new URL('/dashboard', request.url))
 }
 return NextResponse.next()
}

export const config = {
 matcher: '/',
}
...

```

```

```

```
Frontend Core Files
```

```
app/layout.tsx
```

```

``typescript
import type React from "react"
import type { Metadata } from "next"
import { Inter, Roboto_Mono } from "next/font/google"
import { Analytics } from "@vercel/analytics/next"
import { ThemeProvider } from "@components/theme-provider"
import { AuthProvider } from "@contexts/AuthContext"
import "./globals.css"

const inter = Inter({ subsets: ["latin"], variable: "--font-sans" })
const robotoMono = Roboto_Mono({ subsets: ["latin"], variable: "--font-mono" })

export const metadata: Metadata = {
 title: "Campus Flow - Event & Venue Management",
 description: "Manage university events and venues efficiently",
 generator: "v0.app",
}

export default function RootLayout({
 children,
}: Readonly<{
 children: React.ReactNode
}>) {
 return (

```

```

<html lang="en" suppressHydrationWarning>
 <body className={` ${inter.variable} ${robotoMono.variable} font-sans antialiased`} >
 <ThemeProvider attribute="class" defaultTheme="light" enableSystem>
 <AuthProvider>
 {children}
 </AuthProvider>
 </ThemeProvider>
 <Analytics />
 </body>
</html>
)
}
...

```

### app/page.tsx

```

``typescript
"use client"

import { useEffect } from "react"
import { useRouter } from "next/navigation"

export default function Home() {
 const router = useRouter()

 useEffect(() => {
 router.replace("/dashboard")
 }, [router])

 return null
}
...

```

### contexts/AuthContext.tsx

```

``typescript
"use client"

import { createContext, useContext, useState, useEffect, ReactNode } from "react"
import { useRouter } from "next/navigation"

type UserRole = "student" | "club_owner" | "admin" | null

interface User {
 id: string
 email: string
 name: string
 role: UserRole
}

interface AuthContextType {
 user: User | null
 isAuthenticated: boolean
 token: string | null
 login: (email: string, password: string) => Promise<void>
 logout: () => void
 updateUser: (user: Partial<User>) => void
 signup: (email: string, password: string, firstName: string, lastName: string, registrationNumber: string, role: "student" | "club_owner", clubId?: string) => Promise<void>
}

```

```

const AuthContext = createContext<AuthContextType | undefined>(undefined)

export function AuthProvider({ children }: { children: ReactNode }) {
 const [user, setUser] = useState<User | null>(null)
 const [token, setToken] = useState<string | null>(null)
 const router = useRouter()

 // Load user and token from localStorage on mount
 useEffect(() => {
 if (typeof window !== "undefined") {
 const savedUser = localStorage.getItem("user")
 const savedToken = localStorage.getItem("token")

 if (savedToken) {
 setToken(savedToken)
 }

 if (savedUser) {
 try {
 const parsedUser = JSON.parse(savedUser)
 setUser(parsedUser)
 } catch (e) {
 console.error("Error loading user from localStorage", e)
 localStorage.removeItem("user")
 }
 }
 }
 }, [])

 const login = async (email: string, password: string) => {
 try {
 const response = await fetch("/api/auth/login", {
 method: "POST",
 headers: { "Content-Type": "application/json" },
 body: JSON.stringify({ email, password }),
 })

 if (!response.ok) {
 const errorData = await response.json().catch(() => ({}))
 throw new Error(errorData.error || "Login failed. Please check your credentials.")
 }

 const data = await response.json()

 if (!data.token || !data.user) {
 throw new Error("Invalid response from server")
 }

 // Store token
 if (typeof window !== "undefined") {
 localStorage.setItem("token", data.token)
 setToken(data.token)
 }

 const userData: User = {
 id: data.user.id,
 email: data.user.email,
 name: `${data.user.first_name || ""} ${data.user.last_name || ""}.trim() ||
data.user.email.split("@")[0],

```

```

 role: (data.user.role as UserRole) || "student",
 }

 setUser(userData)
 if (typeof window !== "undefined") {
 localStorage.setItem("user", JSON.stringify(userData))
 }
 router.push("/dashboard")
} catch (error: any) {
 console.error("Login failed:", error)
 // Handle network errors
 if (error.message.includes("Failed to fetch") || error.message.includes("NetworkError")) {
 throw new Error("Cannot connect to server. Please make sure the backend server is running on port 3001.")
 }
 throw error
}
}

const signup = async (
 email: string,
 password: string,
 firstName: string,
 lastName: string,
 registrationNumber: string,
 role: "student" | "club_owner",
 clubId?: string
) => {
 try {
 // Prepare request body
 const requestBody: any = {
 email,
 password,
 firstName,
 lastName,
 role,
 }

 // Only include registrationNumber for students and if it's not empty
 if (role === "student" && registrationNumber && registrationNumber.trim()) {
 requestBody.registrationNumber = registrationNumber.trim()
 }

 // Only include clubId if provided
 if (clubId && clubId.trim()) {
 requestBody.clubId = clubId.trim()
 }

 const response = await fetch("/api/auth/signup", {
 method: "POST",
 headers: { "Content-Type": "application/json" },
 body: JSON.stringify(requestBody),
 })

 if (!response.ok) {
 const errorData = await response.json().catch(() => ({}))
 const errorMessage = errorData.error || `Signup failed (${response.status}). Please check your connection and try again.`
 throw new Error(errorMessage)
 }
 }
}

```

```

 }

 const data = await response.json()

 // After successful signup, automatically log in
 await login(email, password)
 } catch (error: any) {
 console.error("Signup failed:", error)
 // Handle network errors
 if (error.message.includes("Failed to fetch") || error.message.includes("NetworkError")) {
 throw new Error("Cannot connect to server. Please make sure the backend server is running
on port 3001.")
 }
 throw error
 }
}

const logout = () => {
 setUser(null)
 setToken(null)
 if (typeof window !== "undefined") {
 localStorage.removeItem("user")
 localStorage.removeItem("token")
 }
 router.push("/login")
}

const updateUser = (updates: Partial<User>) => {
 if (user) {
 const updatedUser = { ...user, ...updates }
 setUser(updatedUser)
 if (typeof window !== "undefined") {
 localStorage.setItem("user", JSON.stringify(updatedUser))
 }
 }
}

return (
 <AuthContext.Provider
 value={{
 user,
 isAuthenticated: !!user && !!token,
 token,
 login,
 logout,
 updateUser,
 signup,
 }}
 >
 {children}
 </AuthContext.Provider>
)
}

export function useAuth() {
 const context = useContext(AuthContext)
 if (context === undefined) {
 throw new Error("useAuth must be used within an AuthProvider")
 }
 return context
}

```

```
}
...
```

```
lib/api.ts
```

```
``typescript
```

```
// API helper functions for authenticated requests
```

```
export async function apiRequest(url: string, options: RequestInit = {}) {
 const token = typeof window !== "undefined" ? localStorage.getItem("token") : null
```

```

 const headers: HeadersInit = {
 "Content-Type": "application/json",
 ...options.headers,
 }
```

```

 if (token) {
 headers["Authorization"] = `Bearer ${token}`
 }
```

```

 const response = await fetch(url, {
 ...options,
 headers,
 })
```

```

 if (!response.ok) {
 const errorData = await response.json().catch(() => ({}))
 throw new Error(errorData.error || `Request failed: ${response.statusText}`)
 }
```

```

 return response.json()
}
...
```

```

```

```
Frontend Pages
```

```
app/dashboard/page.tsx
```

```
``typescript
```

```
"use client"
```

```
import { useState, useEffect } from "react"
import { ClubCard } from "@components/club-card"
import { Search } from "lucide-react"
```

```
interface Club {
 id: string
 name: string
 description: string
 contact_email: string
}
```

```
export default function DashboardPage() {
 const [searchQuery, setSearchQuery] = useState("")
 const [clubs, setClubs] = useState<Club[]>([])
 const [eventCounts, setEventCounts] = useState<{ [key: string]: number }>({})
 const [isLoading, setIsLoading] = useState(true)
```



```

const clubLogos: { [key: string]: string } = {
 ieee: "/ieee-logo-professional.jpg",
 acm: "/acm-logo-computing.jpg",
 aperture: "/camera-aperture-logo.jpg",
 cactus: "/cactus-nature-logo.jpg",
 litmus: "/literature-book-logo.jpg",
 cinefelix: "/film-reel-movie-logo.jpg",
}

useEffect(() => {
 const fetchData = async () => {
 try {
 setIsLoading(true)
 const [clubsRes, eventsRes] = await Promise.all([
 fetch("/api/clubs"),
 fetch("/api/events"),
])

 let clubsData: Club[] = []
 if (clubsRes.ok) {
 clubsData = await clubsRes.json()
 setClubs(clubsData)
 }

 if (eventsRes.ok) {
 const eventsData = await eventsRes.json()
 const counts: { [key: string]: number } = {}
 // Calculate event counts for each club
 clubsData.forEach((club: Club) => {
 counts[club.id] = eventsData.filter((e: any) => e.club_id === club.id).length
 })
 setEventCounts(counts)
 }
 } catch (error) {
 console.error("Error fetching data:", error)
 } finally {
 setIsLoading(false)
 }
 }

 fetchData()
}, [])

// Update event counts when clubs change
useEffect(() => {
 const fetchEventCounts = async () => {
 try {
 const eventsRes = await fetch("/api/events")
 if (eventsRes.ok) {
 const eventsData = await eventsRes.json()
 const counts: { [key: string]: number } = {}
 clubs.forEach((club) => {
 counts[club.id] = eventsData.filter((e: any) => e.club_id === club.id).length
 })
 setEventCounts(counts)
 }
 } catch (error) {
 console.error("Error fetching event counts:", error)
 }
 }
}, [])

```

```

 if (clubs.length > 0) {
 fetchEventCounts()
 }
 }, [clubs.length])

const filteredClubs = clubs.filter((club) => {
 const query = searchQuery.toLowerCase()
 return (
 club.name.toLowerCase().includes(query) ||
 club.description.toLowerCase().includes(query) ||
 club.id.toLowerCase().includes(query)
)
})

const totalEvents = Object.values(eventCounts).reduce((sum, count) => sum + count, 0)
const upcomingEvents = Math.floor(totalEvents * 0.3)

return (
 <div className="p-6 md:p-8">
 {/* Header Section */}
 <div className="mb-8">
 <h1 className="text-3xl md:text-4xl font-bold mb-2">Welcome to Campus Flow</h1>
 <p className="text-muted-foreground">Discover and manage university events across all
clubs</p>
 </div>

 {/* Search Bar */}
 <div className="mb-8">
 <div className="relative">
 <Search className="absolute left-4 top-1/2 transform -translate-y-1/2 text-muted-
foreground" />
 <input
 type="text"
 placeholder="Search clubs..."
 value={searchQuery}
 onChange={(e) => setSearchQuery(e.target.value)}
 className="w-full pl-12 pr-4 py-3 bg-card text-card-foreground border border-border
rounded-lg focus:outline-none focus:ring-2 focus:ring-primary focus:border-transparent"
 />
 </div>
 </div>

 {/* Stats Section */}
 <div className="grid grid-cols-1 md:grid-cols-3 gap-4 mb-8">
 <div className="bg-card text-card-foreground border border-border rounded-lg p-6">
 <p className="text-sm text-muted-foreground mb-1">Total Clubs</p>
 <p className="text-3xl font-bold text-primary">{clubs.length}</p>
 </div>
 <div className="bg-card text-card-foreground border border-border rounded-lg p-6">
 <p className="text-sm text-muted-foreground mb-1">Active Events</p>
 <p className="text-3xl font-bold text-primary">{totalEvents}</p>
 </div>
 <div className="bg-card text-card-foreground border border-border rounded-lg p-6">
 <p className="text-sm text-muted-foreground mb-1">Upcoming Events</p>
 <p className="text-3xl font-bold text-primary">{upcomingEvents}</p>
 </div>
 </div>

 {/* Clubs Grid */}

```

```

<div className="mb-4">
 <h2 className="text-2xl font-bold mb-6">
 College Clubs {searchQuery && `${filteredClubs.length} found`}
 </h2>
 {isLoading ? (
 <div className="text-center py-12">
 <div className="inline-block animate-spin rounded-full h-8 w-8 border-b-2 border-
primary"></div>
 <p className="mt-4 text-muted-foreground">Loading clubs...</p>
 </div>
) : filteredClubs.length === 0 ? (
 <div className="bg-card border border-border rounded-lg p-8 text-center">
 <p className="text-muted-foreground">No clubs found matching "{searchQuery}"</p>
 </div>
) : (
 <div className="grid grid-cols-1 md:grid-cols-2 lg:grid-cols-3 gap-6">
 {filteredClubs.map((club) => {
 const clubKey = club.name.toLowerCase()
 return (
 <ClubCard
 key={club.id}
 id={club.id}
 name={club.name}
 logo={clubLogos[clubKey] || "/placeholder-logo.svg"}
 description={club.description}
 eventCount={eventCounts[club.id] || 0}
 />
)
 })}
 </div>
)}
</div>
</div>
</div>
)
}
...

```

### app/login/page.tsx

[Full code provided in previous sections - see contexts/AuthContext.tsx for login logic]

### app/signup/page.tsx

[Full code provided in previous sections - see contexts/AuthContext.tsx for signup logic]

### app/dashboard/layout.tsx

```

``typescript
"use client"

```

```

import type React from "react"
import { useEffect } from "react"
import { useRouter } from "next/navigation"
import { Sidebar } from "@components/sidebar"
import { Navbar } from "@components/navbar"
import { useAuth } from "@contexts/AuthContext"

```

```

export default function DashboardLayout({
 children,

```

```

}: {
 children: React.ReactNode
}) {
 const { isAuthenticated } = useAuth()
 const router = useRouter()

 useEffect(() => {
 if (!isAuthenticated) {
 router.push("/login")
 }
 }, [isAuthenticated, router])

 if (!isAuthenticated) {
 return null // Or a loading spinner
 }

 return (
 <div className="flex h-screen">
 <Sidebar />
 <div className="flex-1 flex flex-col md:ml-20">
 <Navbar />
 <main className="flex-1 overflow-auto bg-background">{children}</main>
 </div>
 </div>
)
}

```

### app/club/[id]/page.tsx

[Full code provided in previous sections]

### app/profile/page.tsx

[Full code provided in previous sections]

### app/settings/page.tsx

[Full code provided in previous sections]

---

## Frontend Components

### components/navbar.tsx

[Full code provided in previous sections]

### components/sidebar.tsx

[Full code provided in previous sections]

### components/club-card.tsx

[Full code provided in previous sections]

### components/calendar.tsx

[Full code provided in previous sections]

### components/event-creation-form.tsx

[Full code provided in previous sections]

### components/venue-booking-form.tsx

[Full code provided in previous sections]

### components/event-registration-form.tsx

[Full code provided in previous sections]

---

## Backend Configuration

### package.json

```
```json
{
  "name": "campusflow-backend",
  "version": "1.0.0",
  "main": "index.js",
  "scripts": {
    "dev": "nodemon server.js",
    "init-db": "node scripts/init-db.js",
    "seed-events": "node scripts/seed-events.js"
  },
  "keywords": [],
  "author": "",
  "license": "ISC",
  "description": "",
  "dependencies": {
    "bcryptjs": "^3.0.3",
    "cors": "^2.8.5",
    "dotenv": "^17.2.3",
    "express": "^5.1.0",
    "jsonwebtoken": "^9.0.2",
    "multer": "^2.0.2",
    "pg": "^8.16.3"
  },
  "devDependencies": {
    "nodemon": "^3.1.10"
  }
}
```
```

---

## Backend Core Files

### server.js

```
```javascript
require('dotenv').config();
const express = require('express');
const cors = require('cors');

const app = express();
```

//  *Middleware*

```
app.use(cors());
app.use(express.json());
```

//  *Env sanity checks*


```
if (!process.env.JWT_SECRET) {
  console.warn('! JWT_SECRET is not set. Auth endpoints will fail until it is configured.');
```

```
}
if (!process.env.JWT_EXPIRY) {
  console.warn('! JWT_EXPIRY is not set. Defaulting to 7d for tokens.');
```

```
  process.env.JWT_EXPIRY = '7d';
}
```

//  *Routes*

```
app.use('/api/auth', require('./routes/auth'));
app.use('/api/events', require('./routes/events'));
app.use('/api/venues', require('./routes/venues'));
app.use('/api/registrations', require('./routes/registrations'));
app.use('/api/proposals', require('./routes/proposals'));
app.use('/api/clubs', require('./routes/clubs'));
```

//  *Start the server*

```
const PORT = process.env.PORT || 3001;
```

// *Test database connection on startup*

```
const db = require('./config/database');
(async () => {
  try {
    await db.query('SELECT NOW()');
```

```
    console.log('✅ Connected to PostgreSQL Database');
```

```
  } catch (err) {
    console.error('❌ Database connection failed:', err.message);
    console.error(' Please check your DATABASE_URL in .env file');
```

```
    process.exit(1);
  }
})();
```

```
app.listen(PORT, () => {
  console.log('✅ CAMPUSFLOW backend running on port ${PORT}');
```

```
  console.log(` API available at http://localhost:${PORT}/api`);
});
```

config/database.js

```
```javascript
```

```
const { Pool } = require('pg');
require('dotenv').config();
```

```
if (!process.env.DATABASE_URL) {
 console.error('❌ DATABASE_URL is not set. Create a .env file with DATABASE_URL=postgres://
user:pass@host:5432/dbname');
```

```
 process.exit(1);
}
```

```

const pool = new Pool({
 connectionString: process.env.DATABASE_URL,
});

pool.on('connect', () => {
 console.log('✅ Connected to PostgreSQL Database');
});

pool.on('error', (err) => {
 console.error('❌ Database Error:', err);
});

module.exports = pool;

```

---

## ## Backend Controllers

### ### controllers/authController.js

[Full code provided in previous sections]

### ### controllers/eventController.js

[Full code provided in previous sections]

### ### controllers/venueController.js

[Full code provided in previous sections]

### ### controllers/clubController.js

[Full code provided in previous sections]

### ### controllers/proposalController.js

[Full code provided in previous sections]

---

## ## Backend Routes

### ### routes/auth.js

[Full code provided in previous sections]

### ### routes/events.js

[Full code provided in previous sections]

### ### routes/venues.js

[Full code provided in previous sections]

### ### routes/clubs.js

[Full code provided in previous sections]

### routes/registrations.js

[Full code provided in previous sections]

### routes/proposals.js

[Full code provided in previous sections]

---

## Backend Middleware

### middleware/auth.js

[Full code provided in previous sections]

### middleware/roleCheck.js

[Full code provided in previous sections]

---

## Database Scripts

### scripts/init-db.js

[Full code provided in previous sections]

### scripts/seed-events.js

[Full code provided in previous sections - includes all 18 events with proper venue assignments]

---

## Environment Variables

### Frontend (.env.local)

```

BACKEND_URL=http://localhost:3001

```

### Backend (.env)

```

DATABASE_URL=postgresql://user:password@localhost:5432/campusflow

JWT_SECRET=your-secret-key-here

JWT_EXPIRY=7d

PORT=3001

```

---

## Database Schema

The database includes the following tables:

- `users` - User accounts with authentication

- `clubs` - Club information

- `venues` - Venue information (SHARDA PAI AUDITORIUM, TMA PAI AUDITORIUM, VASANTI PAI AUDITORIUM)



- `events` - Event information
- `venue\_bookings` - Venue booking records
- `event\_registrations` - Event registration records
- `proposal\_letters` - Proposal letters to DSW
- `notifications` - User notifications

---

## ## Features Implemented

1. **Authentication System**
  - User signup (Student/Club Owner)
  - User login with JWT tokens
  - Role-based access control
2. **Event Management**
  - Create events (Club Owners)
  - List all events
  - View event details
  - Register for events (Students)
  - Event posters/images
3. **Venue Booking**
  - List venues
  - Check venue availability
  - Book venues with clash detection
  - Calendar date picker (past dates disabled)
4. **Club Management**
  - List all clubs
  - View club details
  - Filter events by club
  - Search clubs
5. **User Interface**
  - Responsive design
  - Dark/Light theme support
  - Role-based sidebar navigation
  - Profile management

---

## ## Notes

- All venue bookings use clash detection
- Calendar component disables past dates
- Date display uses local timezone to avoid offset issues
- All events are seeded with proper venue assignments (SHARDA PAI AUDITORIUM, TMA PAI AUDITORIUM, VASANTI PAI AUDITORIUM)
- Frontend and backend are integrated via Next.js rewrites

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**\*\*End of Documentation\*\***