

Product Requirements Document (PRD)

Project: Arsenic Summit PWA Website

Client: Arsenic (Model United Nations Organization)

Domain: arsenicsummit.org

Developed by: ZOCAV

Tech Stack: Next.js, HeroUI, Appwrite

1. Purpose & Goals

- Create a best-in-class, fully responsive, installable PWA for the Arsenic Model United Nations.
 - Surpass competitor standards (especially altior.in) on both features and user experience.
 - Reflect premium branding with a **black and imperial blue** theme.
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2. Target Users

- High school/college delegates
 - Secretariat, chairs, and organizers
 - Sponsors & partners
 - Press and general visitors
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3. Key Features

a. Public-Facing Website

- **Homepage:** Modern hero, countdown, event overview, stats, value proposition, featured committees.
- **Committees:** Each with agenda, chair bios, size/capacity, background guide downloads.
- **Registration:** Stepwise form (personal, preferences, payment), auto-save, group registration, early bird support, secure online payments (Razorpay/Stripe/UPI/cards).
- **Event Schedule:** Interactive timeline, downloadable & add-to-calendar.
- **Past Conferences:** Gallery, statistics, testimonials, results archive.
- **Gallery:** Sortable albums, video support, lightbox viewing, social sharing.
- **Sponsors/Partners:** Tiered showcase (logo, link, profile).
- **About:** Team bios, history, MUN credentials, mission, vision.

- **Contact/FAQ:** Form with validation, WhatsApp/email/phone, accordion FAQ, Google Maps.

b. Authenticated Delegate Dashboard

- Modern login (Appwrite authentication: email, social, magic link, two-factor).
- Registration tracking: status, payment records, downloadable invoices, assigned committees.
- Document Center: access committee guides, upload position papers/assignments.
- Personal Schedule: Session reminders, add to calendar, push notifications for key events.
- Networking: Controlled directory, social links, messaging (optional).

c. Admin Panel

- Role-based access (SG, USGs, Committee Directors, Editors).
- Registration review, status change, committee/portfolio allocation.
- Manual & automated allocations with conflict resolution tools.
- Content management: teams, schedules, homepage, FAQs, albums.
- Mass communications: email templates, push notifications, reminders.
- Payment & attendance tracking, financial dashboards, custom reports.
- Security tools: permissions, activity logs, account lockouts.

d. PWA & Performance

- Works offline (conference info, schedule, gallery, guides).
- Push notifications: schedule changes, important news, personalized reminders.
- Installable across devices with custom app icon and launch screen.
- First-class performance (Lighthouse 90+), fast loads, image optimization.

4. Design System

- **Colors:**
 - Background: Black (#000000), Main: Imperial Blue (#173E7D), Accents: #4A90E2, white text.
- **Typography:**
 - Bold modern headings (sans-serif), legible body, accessible contrast.
- **UI Library:**
 - HeroUI for all components (cards, buttons, forms, modals, menus, tables).
- **Mobile-First:**
 - Touch targets, responsive grids, off-canvas menus.

5. Security & Privacy

- HTTPS enforced everywhere.
 - Passwords hashed with Argon2.
 - No payment data stored (handled via gateway).
 - Opt-in push notifications and communication settings.
 - GDPR-compliant privacy policy and user data rights.
 - Activity logs for sensitive actions.
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6. Content Management & Integration

- All pages, FAQs, teams, and galleries editable via Admin Panel.
 - Email via Appwrite/SendGrid; payment integration via Razorpay/Stripe.
 - Analytics dashboard (Google Analytics 4 + custom registration/payment reports).
 - SEO-optimized structure with OpenGraph meta, sitemap, and accessibility compliance.
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7. Milestones

1. Wireframes, theme, and branding approvals
 2. Public site (static content)
 3. Backend setup and content schema
 4. Registration, dashboard, and admin panel
 5. Payment, communications, analytics integration
 6. PWA functionality (offline, installable, push)
 7. Full testing (QA, accessibility, device/browser)
 8. Content population and SEO
 9. Soft launch/internal UAT
 10. Final deploy and launch
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8. Acceptance Criteria

- Fully functional, error-free, responsive on all devices.
 - Installable as PWA with working offline mode and push notifications.
 - All user and admin flows tested (registrations, payments, allocations, emails, content editing).
 - Mobile usability 100%; Lighthouse, SEO, and accessibility targets met.
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9. Success Metrics

- Registration conversion rate $\geq 15\%$
- Registration form abandonment $< 15\%$

- Payment completion rate >95%
 - PWA install rate $\geq 20\%$ of active users
 - Admin unassisted task completion $\geq 95\%$
 - User satisfaction from post-event survey $\geq 4.5/5$
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Approved by: ZOCAV

For review by: Arsenic Team

Date: Nov 15, 2025