AbsoluteSport SSR Web Application — Developer Documentation

This repository contains the production codebase for the AbsoluteSport SSR platform.

For a client-friendly overview, see:

➡ **README-CLIENT.md**

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1. Architecture Overview

Runtime

- Nuxt 4.2.x (SSR)

- Nitro preset: netlify

- Deployed to Netlify Functions

Key Domains

- Booking flows

- Airtable CMS content

- GoCardless payments

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2. Technology Stack

- Nuxt 4

- Vue 3

- TypeScript

- Airtable SDK

- Mailchimp

- GoCardless

- nuxt-security

- Vitest + Nuxt Test Utils

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3. Project Structure

```

app/

components/

composables/

pages/

server/

api/

utils/

test/

nuxt/

```

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4. Environment Variables

| Key | Purpose |

|-----|--------|

| NUXT_PRIVATE_AT_API_KEY | Airtable key |

| NUXT_PUBLIC_AT_BASE_ID | Airtable base |

| NUXT_PRIVATE_MAILCHIMP_KEY | Mailchimp |

| NUXT_PRIVATE_GOCARDLESS_KEY | GoCardless |

| NUXT_PRIVATE_CSP_AIRTABLE_TOKEN | CSP logs |

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5. Airtable Pipeline

All calls pass through `server/api/utils/airtable.ts`

Ensures consistent API usage and proper type handling.

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6. Booking Guard — useBookingApi

Centralised error handler for Airtable outages.

Behaviour:

- Success → return response

- 429/503 → redirect to `/booking-paused`

- Other errors → rethrow

Covered by full unit tests.

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7. Security Features

- CSP headers (nuxt-security)

- CSP reporting API

- Legacy URL logging API

- Hardened SSR runtime

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8. Testing

Uses:

- Vitest

- @nuxt/test-utils

- hoisted mocks

Run tests:

```

npm run test
```

```

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## 9. Development Workflow

```

npm install

npm run dev

npm run typecheck

```

Tailwind viewer:

http://localhost:3000/_tailwind/

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## 10. Deployment Workflow

- Push to feature branch → Netlify deploy preview

- Merge to main → Production deploy

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## 11. Troubleshooting

**Airtable 429 loops**
```

→ Check Airtable usage + booking guard handling.

Test failures

→ Ensure mockNuxtImport is correct.

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12. Versioning

Current version: **1.0.0**

Following semver.