

DHET Requirements Spec

Functional Requirements

Resource Management

- Admin can add , edit, and delete resources via CMS
- Card Box Displaying:
 - Title
 - Resource type (e.g. video, file, audio)
 - University Name
 - Language
 - Subject Field
 - DHET-funded or Non-DHET-funded indicator
 - Download link (Internal or external)
- DHET-funded resources are uploaded in the CMS.
- Non-DHET-funded resources are linked externally.
- Resource file types supported: PDF, DOCX, PPTX, e.t.c

Search & Filter Functionality

The search functionality must support filtering by:

- Language
- Subject field
- Name of institution
- Resource format
- Funding type (DHET or non-DHET)

Search results should update dynamically and include the full card info for each matching resource.

Analytics and Tracking

- Google Analytics is mandatory

Dead Link Detection

- Automatic detection and flagging of broken/dead external links (non-DHET)
- Admin receives a notification (or see a dashboard list) of broken links for correction

Admin and CMS Feature

- Secure login with:

- Password reset (Email verification)
 - Session timeout & logout
 - Password expiry
- Admin dashboard includes:
 - Resource management (CRUD)
 - User management (CRUD)
 - Dead link notifications
 - Media manager
 - Static pages management (e.g. home, contact)
 - Audit Trail

Media

- Embedded YouTube (for videos added using YT)
- Image optimization and responsive handling
- PDF/document viewer or download links

Page Overviews

- Landing Page (Home)
- Resource Library Page
- Contact Page
 - Contact form (with spam protection and reCAPTCHA)
 - Contact Details
- About Page
- Partners (TBC)
- 404 and Error Pages

Audit Trail & Activity Logging

To maintain accountability and monitor content management activities, the system must include an Audit Trail for the admin portal:

Functionality:

- Log key administrative tasks:
 - Resource creation, update, and deletion
 - Admin logins and logouts
 - Password resets
 - User creation, update, and deletion
- Logs should include:
 - Action performed
 - Username of admin
 - Timestamp

- Affected resource or user

Admin Interface:

- Admin dashboard must include a viewable log of recent actions
- Search and filter logs by:
 - Admin
 - Action
 - Date range

Optional: export logs as CSV for auditing purposes.

Integration with LMSs (Future Prep)

- Should be able to embed the resource page on the LMS.

Non-Functional Requirements

Security

- OWASP Complaint
- Compliant with UWC policies and standards
- HTTPS enforced
- Admin Authentication Secured
- Input Validation
- File upload protection (Type Checking)
- Rate limit on login to prevent brute force attacks

Performance

- Page load times under 3 seconds for standard content
- Search response times under 1 second
- High availability with 99.9% minimum uptime
- Responsive and Mobile-friendly design
- CDN Usage

Accessibility

- Comply with WCAG 2.1 standards

Discoverability of the Site

- SEO
- Sitemap

Scalability

- The site should be fully scalable

Hosting

- The vendor should suggest the hosting they will be using as this will be hosted externally

Deliverables Expected

- Functional website based on the above specs
- CMS with documentation and admin training
- Deployment to chosen server or hosting environment
- Documentation:
 - Admin user guide
 - Technical documentation (architecture, APIs, etc.)
 - Maintenance guide
 - Interface design and technical solutions document
 - UAT and QA process
- Support and maintenance SLA proposal
- Security testing and verification report
- Testing (UAT) and Prod environment