

# # ROSHAN TRAINING INSTITUTE – Full Application Specification

\*\*\*

## ## 📄 EXECUTIVE SUMMARY

This specification details a professional institutional web application for ROSHAN TRAINING INSTITUTE (RTI), an AI and Data Analysis training institute. The application consists of:

1. **Public Website** – Marketing and information pages
2. **Student Portal** – Registration, login, and enrollment tracking
3. **Admin Dashboard** – Student management and analytics

The application prioritizes conversion, professional aesthetics, and seamless user experience across all devices.

\*\*\*

## ## 🎯 APPLICATION OBJECTIVES

1. Establish RTI's professional online presence
2. Enable prospective students to register and track enrollment status
3. Provide administrators with tools to manage students and applications
4. Create a modern, tech-driven brand experience reflecting data/AI expertise
5. Drive enrollment conversions through clear CTAs and intuitive navigation

\*\*\*

## ## 👤 USER PERSONAS & JOURNEYS

### ### Persona 1: Prospective Student

**Goal:** Learn about programs and apply for enrollment

**Journey:**

1. Lands on home page
2. Explores programs and about sections
3. Clicks "Apply Now" CTA
4. Registers with email/phone
5. Logs into student dashboard
6. Completes enrollment form
7. Tracks application status

### ### Persona 2: Admin/Staff

**\*\*Goal:\*\*** Manage student applications and communicate updates

**\*\*Journey:\*\***

1. Logs into admin dashboard
2. Views student list and applications
3. Updates application statuses
4. Creates announcements
5. Exports student data for reporting

\*\*\*

## ## PUBLIC WEBSITE SECTION

### ### Page 1: HOME PAGE

#### ##### Hero Section

**\*\*User Interaction:\*\***

- \* User lands on full-width hero with compelling headline
- \* Sees institution tagline and value proposition
- \* Two prominent CTA buttons: "Register" and "Apply Now"
- \* Background features subtle animated gradient or data visualization pattern
- \* Mobile: Stacked layout with full-width buttons

**\*\*Content Elements:\*\***

- \* Headline: "Gain Practical AI & Data Skills for the Global Market"
- \* Subheadline: Brief description of RDTI's mission
- \* Visual: Abstract tech/data background
- \* CTAs: Primary buttons with hover effects

\*\*\*

#### ##### About Section

**\*\*User Interaction:\*\***

- \* User scrolls to see institution overview
- \* Reads founding year (2023) and core philosophy
- \* Two-column layout on desktop, single column on mobile

- \* Left side: Text content
- \* Right side: Illustrative image or icon

**\*\*Content Elements:\*\***

- \* Founded: 2023
- \* Core message: Competency-based, practical training
- \* Target learners overview

\*\*\*

#### #### Core Values Section

**\*\*User Interaction:\*\***

- \* User sees grid of 7 value cards
- \* Each card displays icon, title, and brief description
- \* Cards have subtle hover animation (slight lift/shadow)
- \* On mobile: Single column stack

**\*\*Values Displayed:\*\***

1. Excellence
2. Integrity
3. Innovation
4. Learner-Centeredness
5. Practical Impact
6. Inclusivity
7. Continuous Learning

**\*\*Visual Design:\*\***

- \* Each card: Icon + title + 1-2 line description
- \* Consistent spacing and typography
- \* Hover state: Slight color shift or shadow enhancement

\*\*\*

#### #### Programs Section

**\*\*User Interaction:\*\***

- \* User sees grid of program cards (3 columns on desktop, 1 on mobile)
- \* Each program card displays:

- \* Program icon
- \* Program name
- \* Short description (2-3 lines)
- \* "Learn More" button
- \* Hovering over card triggers subtle animation (scale or shadow)
- \* Clicking "Learn More" opens modal with full program details

#### **\*\*Programs Listed:\*\***

- \* Artificial Intelligence
- \* Data Analysis
- \* Digital Analytics
- \* Advanced Excel
- \* SPSS
- \* Python
- \* Power BI
- \* STATA
- \* KOBO / ODK
- \* Graphic Design
- \* Research Data Management

#### **\*\*Modal Interaction:\*\***

- \* User clicks "Learn More"
- \* Modal opens with full program description
- \* Modal includes: Program overview, learning outcomes, target audience
- \* "Enroll Now" button in modal links to registration

\*\*\*

#### **##### Why Choose Us Section**

#### **\*\*User Interaction:\*\***

- \* User sees 5 key differentiators in horizontal layout
- \* Each item has icon + title + description
- \* On mobile: Stacked vertically
- \* Reinforces competitive advantages

#### **\*\*Key Points:\*\***

- \* Project-based learning with real datasets
- \* Mentorship from industry professionals
- \* Career coaching and job placement support

- \* Remote-friendly learning approach
- \* Global standard, local impact

\*\*\*

#### #### Testimonials Section (Placeholder)

\*\*User Interaction:\*\*

- \* User sees carousel/grid of student testimonials
- \* Each testimonial shows: Student name, program, quote, photo placeholder
- \* On desktop: 3 testimonials visible, swipeable
- \* On mobile: 1 testimonial visible with navigation arrows

\*\*\*

#### #### Call-to-Action Section

\*\*User Interaction:\*\*

- \* User sees centered section with enrollment message
- \* Prominent "Apply for Enrollment" button
- \* Message: "January Intake – Ongoing"
- \* High contrast to encourage clicks

\*\*\*

#### #### Footer

\*\*User Interaction:\*\*

- \* User scrolls to bottom
- \* Sees contact information: Email, phone
- \* Quick navigation links to main pages
- \* Social media placeholders (LinkedIn, Twitter, etc.)
- \* Copyright information

\*\*\*

### ### Page 2: ABOUT US

#### #### Mission & Vision Section

\*\*User Interaction:\*\*

- \* User sees clearly separated mission and vision statements
- \* Two-column layout on desktop
- \* Large, readable typography
- \* Icons or visual separators between sections

\*\*\*

#### #### Institute History

\*\*User Interaction:\*\*

- \* User sees timeline-style layout showing institute growth
- \* Key milestones displayed chronologically
- \* Visual timeline graphic on desktop, vertical on mobile

\*\*\*

#### #### Leadership Profiles

\*\*User Interaction:\*\*

- \* User sees cards for key personnel:
  - \* Principal: Christopher
  - \* College & Career Counselor: Mr. Isaac
- \* Each card includes: Name, title, brief bio, photo placeholder
- \* Cards arranged in grid (2 columns on desktop, 1 on mobile)

\*\*\*

#### #### Governance Section

\*\*User Interaction:\*\*

- \* User reads about institute governance structure
- \* Clean text layout with clear hierarchy

\*\*\*

### ### Page 3: PROGRAMS

#### #### Program Listing

\*\*User Interaction:\*\*

- \* User sees all programs in organized grid
- \* Filter/category buttons at top: "All", "Data", "Design", "Tools"
- \* Clicking filter updates displayed programs
- \* Each program card shows: Icon, name, description, "View Details" button

#### #### Program Detail View

##### \*\*User Interaction:\*\*

- \* User clicks on program card or "View Details"
- \* Page/modal displays:
  - \* Full program description
  - \* Learning outcomes (bulleted list)
  - \* Target audience
  - \* Duration/schedule info
  - \* Prerequisites (if any)
  - \* "Enroll Now" CTA button
- \* On mobile: Full-screen modal or dedicated page

\*\*\*

#### ### Page 4: CO-CURRICULAR ACTIVITIES

##### \*\*User Interaction:\*\*

- \* User sees sections for:
  - \* Webinars
  - \* Hackathons
  - \* Research Clinics
  - \* Freelancing Clinics
- \* Each section displays upcoming/past events
- \* Event cards show: Title, date, description, "Learn More" link

\*\*\*

#### ### Page 5: CONTACT US

##### #### Contact Form

##### \*\*User Interaction:\*\*

- \* User sees contact form with fields:
  - \* Full Name (text input)

- \* Email (email input)
- \* Subject (text input)
- \* Message (textarea)
- \* Submit button
- \* Form has clear validation (required field indicators)
- \* On submit: Success message appears
- \* Mobile: Full-width form

#### #### Contact Information

\*\*User Interaction:\*\*

- \* User sees contact details displayed prominently:
  - \* Email: [roshandatainstitute@gmail.com](mailto:roshandatainstitute@gmail.com)
  - \* Phone: 0702171149
- \* Each contact method is clickable (email opens mail client, phone opens dialer on mobile)

#### #### Map Placeholder

\*\*User Interaction:\*\*

- \* User sees embedded map area (placeholder for future implementation)
- \* Shows institute location

\*\*\*

## ## AUTHENTICATION PAGES

### #### Page 6: REGISTRATION

\*\*User Interaction:\*\*

- \* User clicks "Register" or "Apply Now" from home page
- \* Directed to registration page with centered card layout
- \* Sees form with fields:
  - \* Full Name (text input, required)
  - \* Email (email input, required, with validation)
  - \* Phone Number (tel input, required)
  - \* Password (password input, required, with strength indicator)
  - \* Confirm Password (password input, required)
  - \* Learner Category (dropdown: Student, Graduate, Professional)
  - \* Target Program (dropdown: List of all programs)
  - \* Terms & Conditions checkbox
  - \* Submit button: "Create Account"



- \* Link to login: "Already have an account? Login"

#### **\*\*Validation Behavior:\*\***

- \* Real-time validation on blur
- \* Email format validation
- \* Password strength indicator (weak/medium/strong)
- \* Required field indicators
- \* Error messages appear below fields
- \* Submit button disabled until all required fields valid

#### **\*\*Success Behavior:\*\***

- \* On successful registration: Success message appears
- \* User automatically logged in
- \* Redirected to student dashboard

#### **\*\*Error Handling:\*\***

- \* Email already exists: Error message displayed
- \* Network error: Retry option shown
- \* Clear error messages in user-friendly language

\*\*\*

### **### Page 7: LOGIN**

#### **\*\*User Interaction:\*\***

- \* User clicks "Login" or navigates to login page
- \* Sees centered card with form:
  - \* Email (email input, required)
  - \* Password (password input, required)
  - \* "Remember Me" checkbox
  - \* Submit button: "Login"
  - \* "Forgot Password?" link
  - \* Link to registration: "Don't have an account? Register"

#### **\*\*Validation Behavior:\*\***

- \* Email format validation
- \* Required field indicators
- \* Error messages for invalid credentials
- \* Loading state on submit button

## **\*\*Success Behavior:\*\***

- \* On successful login: Redirected to student dashboard
- \* Session maintained across page refreshes

## **\*\*Error Handling:\*\***

- \* Invalid credentials: "Email or password incorrect" message
- \* Account not found: "No account with this email"
- \* Network error: Retry option

\*\*\*

## **#### Page 8: FORGOT PASSWORD (Future Enhancement)**

### **\*\*User Interaction:\*\***

- \* User clicks "Forgot Password?" on login page
- \* Sees form requesting email
- \* Enters email and clicks "Reset Password"
- \* Success message: "Check your email for reset link"
- \* User receives email with reset link
- \* Clicking link takes to password reset form
- \* User enters new password and confirms
- \* Success message and redirect to login

\*\*\*

## **## STUDENT PORTAL SECTION**

### **#### Student Dashboard Layout**

#### **\*\*Overall Structure:\*\***

- \* Left sidebar (collapsible on mobile) with navigation
- \* Main content area
- \* Top navbar with user profile and logout

#### **##### Sidebar Navigation**

#### **\*\*User Interaction:\*\***

- \* User sees vertical menu with options:

- \* Dashboard (home icon)
- \* Profile (user icon)
- \* Enrollment (form icon)
- \* Announcements (bell icon)
- \* Logout (exit icon)
- \* Active page highlighted
- \* On mobile: Hamburger menu that slides in from left
- \* Clicking menu items navigates between sections
- \* Sidebar collapses on mobile to save space

\*\*\*

### ### Dashboard Page (Student Home)

#### \*\*User Interaction:\*\*

- \* User logs in and sees personalized dashboard
- \* Greeting message: "Welcome, \[First Name]!"
- \* Main content area displays:

#### #### Enrollment Status Card

- \* Large, prominent card showing current status
- \* Status options displayed as badge:
  - \* "Not Applied" (gray)
  - \* "Applied" (blue)
  - \* "Under Review" (yellow)
  - \* "Accepted" (green)
  - \* "Rejected" (red)
- \* Status badge color-coded for quick visual recognition
- \* Below status: Last updated date

#### #### Quick Actions Section

- \* "Apply for Enrollment" button (prominent, primary color)
- \* "View Profile" button
- \* "Contact Support" button

#### #### Recent Announcements Widget

- \* Shows 3 most recent announcements from admin
- \* Each announcement shows: Title, date, preview text
- \* "View All" link to announcements page
- \* Announcement items clickable to view full content

#### #### Progress Tracker (Visual)

- \* Horizontal timeline showing enrollment stages:
  1. Registration ✓ (completed)
  2. Application (current or completed)
  3. Review (pending or completed)
  4. Decision (pending)
- \* Current stage highlighted
- \* Completed stages show checkmark

\*\*\*

#### ### Profile Page

\*\*User Interaction:\*\*

- \* User clicks "Profile" in sidebar
- \* Sees profile information displayed:
  - \* Full Name
  - \* Email
  - \* Phone Number
  - \* Learner Category
  - \* Target Program
  - \* Account Created Date
  - \* Last Login Date

#### #### Edit Profile Section

- \* "Edit Profile" button opens modal or form
- \* User can update:
  - \* Full Name
  - \* Phone Number
  - \* Target Program
  - \* Learner Category
- \* Save and Cancel buttons
- \* Success message on save
- \* Changes reflected immediately on profile page

#### #### Change Password Section

- \* "Change Password" button
- \* Opens modal with fields:
  - \* Current Password

- \* New Password
- \* Confirm New Password
- \* Submit button
- \* Success/error messages

\*\*\*

### ### Enrollment Page

\*\*User Interaction:\*\*

- \* User clicks "Enrollment" in sidebar
- \* Sees enrollment section with:

#### #### Status Indicator

- \* Current enrollment status displayed prominently
- \* Color-coded badge matching dashboard

#### #### Enrollment Form Container

- \* Embedded Google Form displayed in responsive iframe
- \* Form takes up full width on desktop, responsive on mobile
- \* Form is scrollable within container

#### #### Form Submission Workflow

- \* User completes Google Form fields
- \* User clicks "Submit" within the form
- \* After submission, user returns to enrollment page
- \* "Mark as Submitted" button appears (if not already marked)
- \* User clicks "Mark as Submitted"
- \* Status updates to "Applied"
- \* Success message: "Your application has been submitted. We'll review it shortly."
- \* Button changes to "Application Submitted" (disabled state)

#### #### Status Update Notification

- \* When admin updates status, student sees notification:
  - \* Toast notification at top of page
  - \* Notification message: "Your application status has been updated to \[New Status]"
  - \* Status badge on enrollment page updates in real-time
  - \* If accepted: Congratulatory message with next steps
  - \* If rejected: Message with option to contact support

\*\*\*

### ### Announcements Page

\*\*User Interaction:\*\*

- \* User clicks "Announcements" in sidebar
- \* Sees list of all announcements from admin
- \* Each announcement displays:
  - \* Title
  - \* Date posted
  - \* Preview text (first 100 characters)
  - \* "Read More" link

### #### Announcement Detail View

- \* User clicks on announcement or "Read More"
- \* Full announcement content displayed
- \* Includes: Title, date, full text content
- \* Back button to return to list

### #### Announcement Notifications

- \* New announcements trigger notification badge on sidebar
- \* Badge shows count of unread announcements
- \* Clicking announcement marks as read
- \* Badge count decreases

\*\*\*

## ## ADMIN DASHBOARD SECTION

### ### Admin Dashboard Layout

\*\*Overall Structure:\*\*

- \* Left sidebar with navigation menu
- \* Main content area
- \* Top navbar with admin profile and logout

### #### Sidebar Navigation

\*\*User Interaction:\*\*

- \* Admin sees vertical menu with options:
  - \* Overview (dashboard icon)
  - \* Students (users icon)
  - \* Announcements (megaphone icon)
  - \* Analytics (chart icon)
  - \* Logout (exit icon)
- \* Active page highlighted
- \* On mobile: Collapsible hamburger menu
- \* Clicking menu items navigates between sections

\*\*\*

### #### Overview Page (Admin Home)

\*\*User Interaction:\*\*

- \* Admin logs in and sees dashboard overview
- \* Greeting: "Welcome, Admin"

### ##### Key Metrics Cards (Grid Layout)

- \* 4 cards displayed in 2x2 grid on desktop, stacked on mobile:

\*\*Card 1: Total Students\*\*

- \* Large number showing total registered students
- \* Subtitle: "Total Registered Users"
- \* Icon: Users icon
- \* Trend indicator: "↑ 12 this month"

\*\*Card 2: Total Applications\*\*

- \* Number showing total applications received
- \* Subtitle: "Applications Submitted"
- \* Icon: Form icon
- \* Trend indicator: "↑ 8 this week"

\*\*Card 3: Accepted Students\*\*

- \* Number showing accepted applications
- \* Subtitle: "Accepted"
- \* Icon: Checkmark icon
- \* Percentage of total applications

## **\*\*Card 4: Pending Review\*\***

- \* Number showing applications under review
- \* Subtitle: "Under Review"
- \* Icon: Clock icon
- \* Percentage of total applications

## **##### Analytics Chart Section**

- \* Line chart showing application submissions over time
- \* X-axis: Dates (last 30 days)
- \* Y-axis: Number of applications
- \* Tooltip on hover shows exact numbers
- \* Chart is responsive and interactive

## **##### Recent Applications Widget**

- \* Table showing 5 most recent applications
- \* Columns: Student Name, Program, Status, Date Submitted
- \* Each row clickable to view student details
- \* "View All" link to full students page

\*\*\*

## **### Students Management Page**

### **\*\*User Interaction:\*\***

- \* Admin clicks "Students" in sidebar
- \* Sees comprehensive student management interface

## **##### Search & Filter Section**

- \* Search bar: Search by student name or email
- \* Filter dropdowns:
  - \* Filter by Program (dropdown with all programs)
  - \* Filter by Status (dropdown: Not Applied, Applied, Under Review, Accepted, Rejected)
  - \* Filter by Registration Date (date range picker)
- \* "Clear Filters" button to reset
- \* Filters apply in real-time

## **##### Students Table**



\* Responsive table with columns:

- \* Student Name (clickable)
- \* Email
- \* Phone
- \* Program
- \* Status (color-coded badge)
- \* Registration Date
- \* Actions (dropdown menu)

**\*\*Table Interactions:\*\***

- \* Clicking student name opens student detail page
- \* Sorting: Click column headers to sort (ascending/descending)
- \* Pagination: Shows 10 students per page with navigation
- \* Pagination controls at bottom: Previous, page numbers, Next

**##### Actions Dropdown (Per Row)**

- \* User clicks "Actions" or three-dot menu
- \* Dropdown shows options:
  - \* View Details
  - \* Update Status
  - \* Send Message
  - \* Export Profile

\*\*\*

**### Student Detail Page**

**\*\*User Interaction:\*\***

- \* Admin clicks on student name or "View Details"
- \* Sees full student profile with:

**##### Student Information Section**

- \* Full Name
- \* Email
- \* Phone Number
- \* Learner Category
- \* Target Program
- \* Registration Date
- \* Last Login Date
- \* Account Status (Active/Inactive)

#### #### Enrollment Status Section

- \* Current status displayed prominently
- \* Status update dropdown: Admin can change status
- \* Options: Not Applied, Applied, Under Review, Accepted, Rejected
- \* "Update Status" button
- \* Success message on update
- \* Timestamp of last status change

#### #### Activity Log

- \* Timeline showing all status changes
- \* Each entry shows: Date, time, status change, updated by
- \* Scrollable if many entries

#### #### Actions

- \* "Send Message" button: Opens modal to send notification to student
- \* "Export Profile" button: Downloads student data as PDF
- \* "Back to Students" link

\*\*\*

#### ### Announcements Management Page

\*\*User Interaction:\*\*

- \* Admin clicks "Announcements" in sidebar
- \* Sees announcements management interface

#### #### Create Announcement Section

- \* "Create New Announcement" button (prominent)
- \* Clicking button opens modal with form:
  - \* Title (text input)
  - \* Content (rich text editor)
  - \* Publish toggle (switch: Draft/Published)
  - \* Schedule option (optional date/time picker)
  - \* "Create" and "Cancel" buttons

#### #### Announcements List

- \* Table showing all announcements:

- \* Title
- \* Date Created
- \* Status (Published/Draft)
- \* Views count
- \* Actions (Edit, Delete, Preview)

**\*\*List Interactions:\*\***

- \* Clicking "Edit" opens announcement in edit modal
- \* Clicking "Delete" shows confirmation dialog
- \* Clicking "Preview" shows how announcement appears to students
- \* Announcements sorted by date (newest first)

#### ##### Announcement Detail/Edit Modal

- \* Shows announcement content
- \* Allows editing of title and content
- \* Toggle to publish/unpublish
- \* "Save Changes" button
- \* "Cancel" button
- \* Delete option at bottom

\*\*\*

#### ### Analytics Page

**\*\*User Interaction:\*\***

- \* Admin clicks "Analytics" in sidebar
- \* Sees detailed analytics and reporting

#### ##### Key Metrics Overview

- \* Same 4 metric cards as Overview page
- \* Shows current snapshot

#### ##### Charts Section

**\*\*Chart 1: Applications by Program\*\***

- \* Bar chart showing number of applications per program
- \* X-axis: Program names
- \* Y-axis: Number of applications
- \* Hover tooltip shows exact numbers

- \* Color-coded bars

## **\*\*Chart 2: Application Status Distribution\*\***

- \* Pie/donut chart showing:
  - \* Not Applied (gray)
  - \* Applied (blue)
  - \* Under Review (yellow)
  - \* Accepted (green)
  - \* Rejected (red)
- \* Legend showing percentages
- \* Clickable segments to filter students

## **\*\*Chart 3: Enrollment Trend\*\***

- \* Line chart showing applications over time
- \* X-axis: Dates (last 90 days)
- \* Y-axis: Number of applications
- \* Multiple lines for different programs (optional)
- \* Hover tooltip with details

## **##### Export Data Section**

- \* "Export Students Data" button
- \* Clicking shows options:
  - \* Export as CSV
  - \* Export as Excel
  - \* Export as PDF
- \* Optional filters before export:
  - \* Select date range
  - \* Select programs to include
  - \* Select statuses to include
- \* "Download" button initiates download

\*\*\*

## **## 🎨 DESIGN SYSTEM & VISUAL LANGUAGE**

### **#### Color Palette**

#### **\*\*Primary Colors:\*\***

- \* Deep Blue: #0F172A (Main brand color, headings, primary buttons)
- \* Teal/Cyan: #06B6D4 (Accents, hover states, secondary elements)

## **\*\*Neutral Colors:\*\***

- \* White: #FFFFFF (Backgrounds, text on dark)
- \* Light Gray: #F3F4F6 (Secondary backgrounds, borders)
- \* Dark Gray: #374151 (Body text)
- \* Medium Gray: #9CA3AF (Secondary text, placeholders)

## **\*\*Status Colors:\*\***

- \* Success/Accepted: #10B981 (Green)
- \* Warning/Under Review: #F59E0B (Amber)
- \* Error/Rejected: #EF4444 (Red)
- \* Info/Applied: #3B82F6 (Blue)
- \* Neutral/Not Applied: #6B7280 (Gray)

## **\*\*Gradients:\*\***

- \* Primary Gradient: Deep Blue (#0F172A) → Teal (#06B6D4)
- \* Used for hero backgrounds and accent elements

## **### Typography**

### **\*\*Font Families:\*\***

- \* Headings: Inter or Poppins (Bold, 600-700 weight)
- \* Body: Inter or system font (Regular, 400 weight)
- \* Monospace (if needed): JetBrains Mono

### **\*\*Type Scale:\*\***

- \* H1 (Hero): 48px, Bold, line-height 1.2
- \* H2 (Section): 36px, Bold, line-height 1.3
- \* H3 (Subsection): 24px, Bold, line-height 1.4
- \* H4 (Card titles): 18px, Bold, line-height 1.4
- \* Body: 16px, Regular, line-height 1.6
- \* Small: 14px, Regular, line-height 1.5
- \* Caption: 12px, Regular, line-height 1.4

## **### Component Specifications**

### **#### Buttons**

#### **\*\*Primary Button:\*\***

- \* Background: Deep Blue (#0F172A)
- \* Text: White
- \* Padding: 12px 24px
- \* Border Radius: 8px
- \* Font Weight: 600
- \* Hover: Darker shade or teal accent
- \* Active: Pressed state with slight inset shadow
- \* Disabled: Gray background, reduced opacity

#### **\*\*Secondary Button:\*\***

- \* Background: Transparent
- \* Border: 2px Teal (#06B6D4)
- \* Text: Teal
- \* Padding: 12px 24px
- \* Border Radius: 8px
- \* Hover: Light teal background
- \* Active: Darker teal background

#### **\*\*Outline Button:\*\***

- \* Background: Transparent
- \* Border: 1px Light Gray
- \* Text: Dark Gray
- \* Padding: 12px 24px
- \* Border Radius: 8px
- \* Hover: Light gray background

#### **#### Cards**

- \* Background: White
- \* Border: 1px Light Gray
- \* Border Radius: 12px
- \* Padding: 24px
- \* Box Shadow: 0 1px 3px rgba(0,0,0,0.1)
- \* Hover: Subtle shadow increase, slight lift animation

#### **#### Input Fields**

- \* Background: White
- \* Border: 1px Light Gray
- \* Border Radius: 8px
- \* Padding: 12px 16px

- \* Font Size: 16px
- \* Focus: Border color changes to Teal, subtle shadow
- \* Error: Border color red, error message below
- \* Placeholder: Medium Gray text

#### ##### Badges/Status Indicators

- \* Padding: 6px 12px
- \* Border Radius: 20px (pill-shaped)
- \* Font Size: 12px
- \* Font Weight: 600
- \* Color-coded by status (see Status Colors above)

#### ##### Modals

- \* Background: White
- \* Border Radius: 12px
- \* Box Shadow: 0 20px 25px rgba(0,0,0,0.15)
- \* Padding: 32px
- \* Overlay: Semi-transparent dark (rgba(0,0,0,0.5))
- \* Close button: Top right corner
- \* Smooth fade-in animation

#### ##### Tables

- \* Header background: Light Gray (#F3F4F6)
- \* Header text: Dark Gray, Bold
- \* Row background: White
- \* Row border: 1px Light Gray
- \* Hover row: Light gray background
- \* Padding: 16px per cell
- \* Striped rows optional for readability

#### ##### Sidebar

- \* Background: Deep Blue (#0F172A)
- \* Text: White
- \* Width: 280px (desktop), collapsible on mobile
- \* Menu items: 16px, regular weight
- \* Active item: Teal background, bold text
- \* Hover: Slightly lighter background
- \* Icons: 20px, white

#### ##### Navbar (Top)

- \* Background: White
- \* Border bottom: 1px Light Gray
- \* Height: 64px
- \* Padding: 0 24px
- \* Logo/brand on left
- \* User profile menu on right
- \* Responsive: Logo scales down on mobile

#### ### Spacing System

- \* Base unit: 8px
- \* Spacing scale: 8px, 16px, 24px, 32px, 48px, 64px
- \* Margins between sections: 48px-64px
- \* Padding within components: 16px-24px
- \* Gap between grid items: 24px

#### ### Animations & Transitions

- \* Hover effects: 200ms ease-in-out
- \* Page transitions: 300ms fade
- \* Modal open/close: 250ms ease-out
- \* Button press: 100ms scale
- \* Subtle micro-interactions on interactive elements
- \* No jarring or distracting animations

#### ### Responsive Breakpoints

- \* Mobile: 0px - 640px
- \* Tablet: 641px - 1024px
- \* Desktop: 1025px+
- \* Mobile-first approach

#### ### Accessibility

- \* Minimum contrast ratio: 4.5:1 for text
- \* Focus states clearly visible (outline or highlight)
- \* All interactive elements keyboard accessible
- \* Form labels associated with inputs
- \* Error messages linked to form fields
- \* Alt text for all images and icons

\*\*\*



## ## USER INTERACTION FLOWS

### ### Flow 1: New Student Registration & Enrollment

1. User lands on home page
2. Clicks "Register" or "Apply Now" button
3. Directed to registration page
4. Fills in registration form with validation
5. Clicks "Create Account"
6. Automatically logged in
7. Redirected to student dashboard
8. Sees "Not Applied" status
9. Clicks "Apply for Enrollment"
10. Scrolls to embedded Google Form
11. Completes form fields
12. Submits form
13. Clicks "Mark as Submitted" button
14. Status updates to "Applied"
15. Success message displayed
16. Can now track status on dashboard

### ### Flow 2: Admin Reviews & Updates Application

1. Admin logs in to admin dashboard
2. Sees overview with pending applications
3. Clicks "Students" in sidebar
4. Filters by "Under Review" status
5. Clicks on student name to view details
6. Reviews student information
7. Clicks status dropdown
8. Selects "Accepted" or "Rejected"
9. Clicks "Update Status"
10. Confirmation message shown
11. Student receives notification of status change
12. Admin can view updated analytics

### ### Flow 3: Admin Creates Announcement

1. Admin clicks "Announcements" in sidebar
2. Clicks "Create New Announcement" button
3. Modal opens with form
4. Enters announcement title
5. Types content in rich text editor
6. Toggles "Published" switch

7. Optionally sets schedule date
8. Clicks "Create"
9. Success message shown
10. Announcement appears in list
11. Students see notification badge
12. Students can view announcement in their portal

#### ### Flow 4: Student Tracks Application Status

1. Student logs into dashboard
2. Sees enrollment status card
3. Status shows current stage
4. Clicks on status card or "Enrollment" in sidebar
5. Views detailed enrollment page
6. Sees progress timeline
7. If status changes, notification appears
8. Student can click notification to see details
9. Can contact support if needed

\*\*\*

## ## 🗡️ THIRD-PARTY INTEGRATIONS & TOOLS

#### ### Google Forms Integration

**\*\*Purpose:\*\*** Collect detailed enrollment application data

**\*\*How It Works:\*\***

- \* Google Form embedded as iframe on student enrollment page
- \* Form hosted externally on Google Forms
- \* Student completes form directly in embedded view
- \* Form submissions stored in Google Sheets
- \* Admin can access responses via Google Sheets

**\*\*User Experience:\*\***

- \* Seamless embedded experience
- \* No page navigation required
- \* Form is responsive and mobile-friendly
- \* Student clicks "Mark as Submitted" after completing form
- \* Status updates in application database

**\*\*Setup Requirements:\*\***

- \* Google Form created with enrollment questions
- \* Form link/embed code provided
- \* Form responses configured to save to Google Sheets
- \* Admin has access to Google Sheets for data review

**\*\*Limitations:\*\***

- \* Form submissions not directly integrated with app database
- \* Manual "Mark as Submitted" step required
- \* Future phase will replace with internal form

\*\*\*

### ### Email Service (Future Enhancement)

**\*\*Purpose:\*\*** Send notifications and communications to students

**\*\*Planned Features:\*\***

- \* Status update notifications
- \* Announcement notifications
- \* Password reset emails
- \* Welcome emails on registration
- \* Application confirmation emails

**\*\*User Experience:\*\***

- \* Students receive emails for important updates
- \* Email templates branded with RDTI colors
- \* Clear CTAs in emails linking back to portal
- \* Unsubscribe options available

\*\*\*

## ## 📱 RESPONSIVE DESIGN SPECIFICATIONS

### ### Mobile (0px - 640px)

**\*\*Navigation:\*\***

- \* Hamburger menu icon in top-left
- \* Sidebar slides in from left on menu click
- \* Overlay closes menu when clicked outside

## **\*\*Layout:\*\***

- \* Single column layout for all pages
- \* Full-width cards and sections
- \* Buttons full-width or stacked
- \* Reduced padding: 16px instead of 24px

## **\*\*Hero Section:\*\***

- \* Headline: 32px instead of 48px
- \* Buttons stacked vertically
- \* Background image scaled appropriately

## **\*\*Forms:\*\***

- \* Full-width inputs
- \* Labels above inputs
- \* Error messages clearly visible
- \* Submit button full-width

## **\*\*Tables:\*\***

- \* Horizontal scroll for data tables
- \* Or convert to card layout showing key info
- \* Actions in dropdown menu

## **\*\*Dashboard:\*\***

- \* Sidebar hidden by default, accessible via hamburger
- \* Main content takes full width
- \* Metric cards stacked vertically
- \* Charts responsive and smaller

## **### Tablet (641px - 1024px)**

## **\*\*Navigation:\*\***

- \* Sidebar visible but narrower (200px)
- \* Hamburger menu optional

## **\*\*Layout:\*\***

- \* Two-column layouts where appropriate

- \* Moderate padding: 20px
- \* Grid layouts with 2 columns

#### **\*\*Forms:\*\***

- \* Two-column form layout possible
- \* Inputs at appropriate width

#### **\*\*Tables:\*\***

- \* All columns visible with horizontal scroll if needed
- \* Pagination visible

### **### Desktop (1025px+)**

#### **\*\*Navigation:\*\***

- \* Full sidebar visible (280px)
- \* Horizontal navbar at top

#### **\*\*Layout:\*\***

- \* Multi-column layouts
- \* Full spacing and padding
- \* Optimal readability

#### **\*\*Forms:\*\***

- \* Two or three column layouts possible
- \* Inputs at comfortable width

#### **\*\*Tables:\*\***

- \* All columns visible
- \* Full pagination controls

\*\*\*

## **## CONVERSION & UX OPTIMIZATION**

### **### Call-to-Action Strategy**

#### **\*\*Primary CTAs:\*\***

- \* "Register" (top navbar, hero section)
- \* "Apply Now" (hero, multiple sections)
- \* "Enroll Now" (program cards, modals)

#### **\*\*Secondary CTAs:\*\***

- \* "Learn More" (program cards)
- \* "View Details" (announcements, programs)
- \* "Contact Support" (dashboard)

#### **\*\*CTA Placement:\*\***

- \* Hero section: Prominent, above fold
- \* End of each major section
- \* Sticky button on mobile (optional)
- \* Multiple opportunities without being pushy

### **### Trust & Credibility Elements**

#### **\*\*On Home Page:\*\***

- \* Mission & vision clearly stated
- \* Core values displayed
- \* Leadership information
- \* Contact information visible
- \* Testimonials section (with student quotes)

#### **\*\*On Programs Page:\*\***

- \* Clear program descriptions
- \* Learning outcomes listed
- \* Target audience specified

#### **\*\*On Dashboard:\*\***

- \* Clear status tracking
- \* Transparent process
- \* Support contact option

### **### Performance Considerations**

#### **\*\*Page Load:\*\***

- \* Optimized images

- \* Lazy loading for below-fold content
- \* Minimal animations on initial load
- \* Fast form interactions

#### **\*\*Mobile Experience:\*\***

- \* Touch-friendly buttons (minimum 44px)
- \* Readable text without zooming
- \* Fast form submission
- \* Clear error messages

\*\*\*

## **## SECURITY & USER PRIVACY**

### **### Authentication Security**

#### **\*\*Password Requirements:\*\***

- \* Minimum 8 characters
- \* Strength indicator shown during registration
- \* Hashed and encrypted storage
- \* Secure transmission (HTTPS)

#### **\*\*Session Management:\*\***

- \* Automatic logout after inactivity (optional)
- \* "Remember Me" functionality
- \* Secure session tokens
- \* Logout clears all session data

### **### Data Privacy**

#### **\*\*Student Data:\*\***

- \* Only collected data necessary for enrollment
- \* Data not shared with third parties
- \* Privacy policy available on website
- \* Terms & conditions on registration

#### **\*\*Admin Access:\*\***

- \* Admin dashboard requires authentication
- \* Admin can only access student data

- \* Activity logged for audit trail

\*\*\*

## ## ANALYTICS & TRACKING (Future Enhancement)

### \*\*Metrics to Track:\*\*

- \* Page views and user flow
- \* Registration conversion rate
- \* Application submission rate
- \* Time spent on each page
- \* Device/browser information
- \* Geographic location (optional)

### \*\*Admin Reporting:\*\*

- \* Built-in analytics dashboard
- \* Custom report generation
- \* Export capabilities
- \* Trend analysis

\*\*\*

## ## FUTURE ENHANCEMENT ROADMAP

### #### Phase 2 Features

1. **\*\*Internal Enrollment Form\*\***
  - \* Replace Google Form with custom form
  - \* Direct database integration
  - \* Real-time status updates
  - \* File upload capability (documents, portfolio)
2. **\*\*Payment Integration\*\***
  - \* M-PESA payment gateway
  - \* Course fees payment
  - \* Payment history tracking
  - \* Invoice generation
3. **\*\*Student Course Portal\*\***
  - \* Access to course materials
  - \* Video lectures
  - \* Assignments and submissions
  - \* Grades and feedback
4. **\*\*LMS Features\*\***



- \* Course modules and lessons
- \* Progress tracking
- \* Quizzes and assessments
- \* Discussion forums
- 5. **Certificate Generation**
  - \* Digital certificates upon completion
  - \* Certificate verification system
  - \* Download and share options
- 6. **Attendance Tracking**
  - \* Class attendance records
  - \* Attendance reports
  - \* Automated notifications for absences
- 7. **AI Chatbot Assistant**
  - \* FAQ answering
  - \* Application guidance
  - \* 24/7 support
  - \* Natural language processing
- 8. **Advanced Analytics**
  - \* Student performance analytics
  - \* Cohort analysis
  - \* Predictive analytics for success
  - \* Custom dashboards
- 9. **Testimonials & Case Studies**
  - \* Student success stories
  - \* Video testimonials
  - \* Career outcomes tracking
  - \* Alumni network
- 10. **Social Features**
  - \* Student community forum
  - \* Peer mentoring
  - \* Group projects
  - \* Networking events

\*\*\*

## ## SUMMARY OF KEY USER INTERACTIONS

#### For Prospective Students:

1. Browse programs and institute information
2. Register with email and basic information
3. Login to personal dashboard
4. Complete enrollment application via Google Form
5. Track application status in real-time

6. Receive notifications of status updates
7. Access announcements and updates

#### ### For Administrators:

1. View all registered students in searchable/filterable table
2. Review student applications and details
3. Update application statuses (Applied → Under Review → Accepted/Rejected)
4. Create and publish announcements
5. View analytics and metrics
6. Export student data for reporting
7. Manage student information

#### ### For Public Visitors:

1. Learn about RDTI mission, vision, and values
2. Explore available programs
3. Read about co-curricular activities
4. Contact institute with inquiries
5. Register or login to apply

\*\*\*

#### ## SPECIFICATION COMPLETE

This specification provides comprehensive guidance for developing the ROSHAN TRAINING INSTITUTE web application with focus on user interactions, visual design, and functional requirements. All pages, features, and user flows are detailed to enable seamless development and deployment of a professional, conversion-optimized institutional platform.