



give me the list of all the frontend requirements needed in the project, give me the list of every section and pages and everything needed for this project. Think critically and then respond, refer to the https://internship.aicte-india.org/login_new.php website, study it and then respond

Based on my comprehensive analysis of the AICTE National Internship Portal and our AI-enhanced system requirements, here's the complete list of frontend requirements for your AI-based Smart Internship Allocation Engine:

Complete Frontend Requirements for AI-Based Smart Internship Allocation Engine

1. Authentication & User Management Module

Landing Page

- **Hero Section** with dynamic statistics (current internship count, companies, success rate)
- **User Type Selection** with clear visual differentiation:
 - Students (with animated icons)
 - Companies (MSME, MNCs, NGO, PSU categories)
 - Training Partners/Institutions
 - Government Administrators
- **Key Announcements Section** with auto-refresh functionality
- **Mobile App Download** links with QR codes
- **Multi-language Toggle** (Hindi, English, regional languages)

Registration System

- **Smart Registration Forms** with auto-validation:
 - **Student Registration:**
 - AICTE/Non-AICTE institution selector with auto-complete
 - Photo capture/upload with AI face detection

- Aadhaar integration with OTP verification
- Academic records upload with OCR parsing
- Skills assessment wizard
- **Company Registration:**
 - GST validation and company verification
 - Multi-step form with progress indicator
 - Document verification (incorporation certificate, etc.)
 - CSR fund commitment section

Login Interface

- **Multi-factor Authentication** with biometric options
- **Social Login Integration** (Google, LinkedIn, Microsoft)
- **Password Recovery** with security questions
- **Remember Me** with secure token management
- **CAPTCHA Integration** with accessibility options

2. Student Dashboard & Profile Management

Main Dashboard

- **Personalized Greeting** with user photo and progress metrics
- **Quick Stats Cards:**
 - Applications submitted
 - Interview invitations
 - Offers received
 - Profile completion percentage
- **Opportunity Recommendations** powered by AI matching
- **Recent Activity Timeline**
- **Upcoming Deadlines** and reminders
- **Voice Assessment Status** indicator

Profile Management

- **Multi-tab Profile Interface:**
 - **Personal Information:** Editable with real-time validation
 - **Academic Records:** GPA calculator and transcript upload
 - **Skills & Certifications:** Tag-based skill selection with proficiency levels
 - **Coding Profiles:** Integration widgets for LeetCode, HackerRank, GitHub

- **Projects Portfolio:** Rich text editor with media uploads
- **Preferences:** Location, industry, salary expectations
- **Profile Completeness Meter** with improvement suggestions
- **Privacy Settings** with granular controls

Voice AI Assessment Interface

- **Assessment Booking System** with calendar integration
- **Pre-assessment Instructions** with sample questions
- **Real-time Voice Interface:**
 - Microphone testing and audio quality check
 - Live transcription display
 - Progress indicator for assessment completion
 - Recording controls (pause, resume, restart)
- **Post-assessment Dashboard:**
 - Skill-wise scoring with radar charts
 - Improvement recommendations
 - Retake scheduling options
 - Performance comparison with peers

Application Management

- **Smart Application Interface:**
 - One-click apply with pre-filled profiles
 - Application tracking with status indicators
 - Bulk application management
 - Saved/Wishlist opportunities
- **Interview Scheduler:**
 - Calendar integration with time zone handling
 - Video call integration (Zoom, Teams, Meet)
 - Reminder notifications
 - Rescheduling options
- **Document Manager:**
 - Resume builder with AI suggestions
 - Cover letter templates
 - Certificate organizer
 - Blockchain verification status

3. Company Dashboard & Opportunity Management

Company Main Dashboard

- **Executive Summary** with key metrics:
 - Active internships count
 - Applications received
 - Selection ratios
 - Diversity statistics
- **Candidate Pipeline** with funnel visualization
- **Quick Actions Panel:**
 - Post new opportunity
 - Bulk candidate selection
 - Generate reports
 - Message candidates
- **Compliance Dashboard** showing affirmative action metrics

Opportunity Posting Interface

- **Smart Job Posting Wizard:**
 - AI-powered job description generator
 - Skills suggestion based on role type
 - Salary benchmarking tool
 - Location preference mapping
- **Advanced Filters Setup:**
 - Academic requirements
 - Skill level specifications
 - Geographic preferences
 - Diversity requirements
- **Preview & Optimization** tools with SEO suggestions

Candidate Discovery & Management

- **AI-Powered Candidate Search:**
 - Smart filters with natural language queries
 - Candidate ranking with explainable AI
 - Bulk selection tools
 - Comparison matrix view

- **Profile Analysis Interface:**
 - Detailed candidate cards with AI insights
 - Skill match percentage with breakdown
 - Voice assessment results visualization
 - Background verification status
- **Communication Hub:**
 - Integrated messaging system
 - Bulk email tools
 - Interview scheduling
 - Offer management system

Analytics & Reporting Dashboard

- **Interactive Data Visualization:**
 - Application trends over time
 - Candidate quality metrics
 - Geographic distribution maps
 - Skill gap analysis
- **Custom Report Builder:**
 - Drag-and-drop report creation
 - Automated report scheduling
 - Export options (PDF, Excel, CSV)
 - Compliance reporting templates

4. Communication & Collaboration Platform

Messaging System

- **Real-time Chat Interface:**
 - Student-company direct messaging
 - Group chats for team interviews
 - File sharing capabilities
 - Message templates for common responses
- **Notification Center:**
 - Push notifications with customizable preferences
 - Email digest options
 - SMS alerts for urgent communications

- In-app notification history

Video Interview Integration

- **Integrated Video Calling:**
 - One-click meeting creation
 - Screen sharing capabilities
 - Recording functionality
 - Technical support chat
- **Interview Management Tools:**
 - Panel interview coordination
 - Question bank integration
 - Live note-taking interface
 - Candidate evaluation forms

5. Analytics & Intelligence Dashboard

Student Analytics

- **Personal Performance Dashboard:**
 - Application success rate tracking
 - Skill development progress
 - Market competitiveness analysis
 - Career path recommendations
- **Comparative Analytics:**
 - Peer comparison metrics
 - Industry benchmarking
 - Skill demand trends
 - Salary insights

System-wide Analytics (Admin)

- **Real-time System Dashboard:**
 - Active users and engagement metrics
 - Geographic distribution maps
 - Success rate analytics
 - Fraud detection alerts
- **Compliance Monitoring:**
 - Affirmative action compliance tracking

- Diversity metrics visualization
- Regional participation analysis
- Government reporting tools

6. Mobile-First Responsive Design

Mobile App Features

- **Progressive Web App (PWA)** capabilities
- **Offline Functionality** for key features
- **Push Notifications** with custom scheduling
- **Biometric Authentication** (fingerprint, face recognition)
- **Location-based Services** for nearby opportunities
- **Voice Search** and navigation
- **Dark Mode** with automatic switching

Responsive Design Elements

- **Adaptive Layouts** for all screen sizes
- **Touch-optimized Controls** with gesture support
- **Mobile-specific Navigation** patterns
- **Optimized Load Times** with lazy loading
- **Mobile Payment Integration** for premium features

7. Accessibility & Multilingual Support

Accessibility Features

- **WCAG 2.1 AA Compliance:**
 - Screen reader compatibility
 - High contrast mode
 - Font size adjustment
 - Color blind friendly design
- **Voice Navigation** for differently-abled users
- **Keyboard Navigation** support throughout
- **Alternative Text** for all visual elements

Multilingual Interface

- **Dynamic Language Switching** without page reload
- **RTL Language Support** for regional languages
- **Cultural Localization** beyond translation
- **Voice Interface** in multiple Indian languages
- **Regional Content Customization**

8. Security & Privacy Interface

Security Dashboard

- **Personal Security Center:**
 - Login activity monitoring
 - Device management
 - Two-factor authentication setup
 - Privacy settings control
- **Data Management Tools:**
 - Data export functionality
 - Account deletion options
 - Privacy policy acceptance tracking
 - Consent management interface

9. Integration & API Interface

Third-party Integrations

- **Coding Platform Widgets:**
 - LeetCode profile embedding
 - HackerRank score integration
 - GitHub activity visualization
 - CodeChef rating display
- **Social Media Integration:**
 - LinkedIn profile import
 - GitHub project showcase
 - Twitter/X professional activity
 - Professional network connections

Government Services Integration

- **Digital Document Verification:**
 - DigiLocker integration
 - Aadhaar verification widget
 - Educational certificate validation
 - Professional license verification
- **Payment Gateway Integration:**
 - Multiple payment options
 - Scholarship/fee payment processing
 - Refund management system
 - Invoice generation tools

10. Advanced Features

AI-Powered Enhancements

- **Smart Recommendations Engine:**
 - Personalized opportunity suggestions
 - Career path guidance
 - Skill development recommendations
 - Mentor matching system
- **Predictive Analytics Interface:**
 - Success probability indicators
 - Market trend predictions
 - Salary expectation guidance
 - Career growth projections

Gamification Elements

- **Achievement System:**
 - Profile completion badges
 - Skill certification levels
 - Application milestone rewards
 - Community contribution points
- **Leaderboards:**
 - Top performers by skill
 - Most active contributors

- Success rate rankings
- Regional competitions

Technical Requirements Summary

Frontend Technology Stack

- **Framework:** React.js/Next.js with TypeScript
- **Styling:** Tailwind CSS with custom design system
- **State Management:** Redux Toolkit with RTK Query
- **Charts/Visualization:** D3.js, Chart.js, Recharts
- **UI Components:** Custom component library with Storybook
- **Animation:** Framer Motion for smooth transitions
- **Testing:** Jest, React Testing Library, Cypress
- **Performance:** Lighthouse optimization, PWA capabilities

Performance Requirements

- **Load Time:** <3 seconds for initial page load
- **Lighthouse Score:** 90+ across all metrics
- **Mobile Responsiveness:** 100% across all devices
- **Accessibility:** WCAG 2.1 AA compliance
- **Browser Support:** Modern browsers (Chrome, Firefox, Safari, Edge)
- **Offline Capability:** Core features available offline
- **Real-time Updates:** WebSocket integration for live data

This comprehensive frontend specification ensures that your AI-based Smart Internship Allocation Engine will provide a superior user experience compared to the existing AICTE portal, with modern design principles, advanced AI integration, and robust functionality that addresses all stakeholder needs.

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