

# ⌚ UI Flow & Screen Design Blueprint for Online Exam Proctoring iOS App

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## 👤 1. Student Role

### Goal:

To securely log in, view scheduled exams, take exams under AI proctoring, and view results with detailed feedback.

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### ❑ Overall Flow

Face ID Login → Dashboard → Exam List → Exam Details → Pre-Exam Checks → Exam Interface  
→ AI Proctoring (Camera + Mic) → Cheating Alerts → Submit → Results & Feedback

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### 📱 Screens for Student

Screen	Description	Key UI Elements
1. Face ID Login / Verification	Biometric login using Face ID for secure access.	- Face ID animation - “Verify Identity” button - Option: “Use password instead”
2. Student Dashboard	Overview of upcoming, ongoing, and past exams.	- Welcome message - Sections: <i>Upcoming</i> , <i>Ongoing</i> , <i>Completed</i> - Notification bell icon - “View Schedule” button
3. Exam Schedule / Subject List	Exams grouped by subject or category.	- Subject cards (e.g., “Maths”, “English”) - Each card → list of exams with date/time/status - Countdown timer for upcoming exams
4. Exam Details	Details before starting the exam.	- Exam name, course, duration, total marks - Live countdown till start time - “Start Exam” button (disabled until start)

<b>5. Pre-Exam Checks &amp; Instructions</b>	System test before exam starts.	<ul style="list-style-type: none"> <li>- Check camera, mic, internet, and permission status (✓ indicators)</li> <li>- Display rules (no phone, no talking, etc.)</li> <li>- Checkbox: “I agree to the exam terms”</li> <li>- “Begin Exam” button</li> </ul>
<b>6. Exam Interface (Main Exam Screen)</b>	Student attempts exam under AI monitoring.	<ul style="list-style-type: none"> <li>- Question text &amp; options</li> <li>- Speech-to-text button (for spoken answers)</li> <li>- Live timer + progress bar (questions completed / total)</li> <li>- “Next” and “Previous” buttons</li> <li>- Camera preview (top-right)</li> <li>- Microphone icon (active when listening)</li> </ul>
<b>7. AI Proctoring Layer (Invisible to Student)</b>	Runs in background.	<ul style="list-style-type: none"> <li>- Eye movement detection (CoreML / Vision)</li> <li>- Face detection, object detection (YOLO/CoreML)</li> <li>- Audio noise analysis</li> </ul>
<b>8. Cheating Alerts (Real-time)</b>	Notifications shown if suspicious behavior detected.	<ul style="list-style-type: none"> <li>- Modal pop-ups: “Multiple faces detected”, “Please look at the screen”, “Background voice detected”</li> <li>- Warning counter</li> </ul>
<b>9. Exam Submission Screen</b>	Confirmation and upload of proctoring data.	<ul style="list-style-type: none"> <li>- “Submit Exam” button</li> <li>- Progress indicator: uploading logs/video</li> <li>- “Thank You” message</li> </ul>
<b>10. Exam Results &amp; Feedback</b>	Display marks, correct answers, and teacher feedback.	<ul style="list-style-type: none"> <li>- Score summary (e.g., “85/100”)</li> <li>- Correct answers highlighted</li> <li>- Feedback comments from teacher</li> <li>- “Download Report” button</li> </ul>

## □ Student Navigation Tabs (Persistent Bottom Bar)

Tab	Description
 <b>Dashboard</b>	Upcoming exams overview
 <b>My Exams</b>	Subject-wise list
 <b>Results</b>	Scores and feedback
 <b>Notifications</b>	Alerts for cheating, schedules, announcements
 <b>Profile</b>	Edit profile, privacy settings, Face ID setup

## 2. Teacher Role

## Goal:

To create, edit, schedule, and manage exams, and monitor students during live exams with AI-assisted proctoring data.

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## □ Overall Flow

Login → Teacher Dashboard → Create Exam → Assign to Course/Students → Live Monitoring  
→ Real-Time Cheating Alerts → View Reports → Student Performance & Logs

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## ■ Screens for Teacher

Screen	Description	Key UI Elements
<b>1. Login / Verification</b>	Secure login (email/password or institutional login).	- Input fields - “Forgot password” - “Continue” button
<b>2. Teacher Dashboard</b>	Overview of teaching load and exams.	- Stats cards: <i>Active Exams, Pending Reports, Students Monitored</i> - “Create Exam” and “View Reports” buttons
<b>3. Create Exam Screen</b>	Teachers can create or edit exams.	- Input fields: <i>Exam Title, Subject, Duration, Total Marks</i> - Add questions (MCQs / descriptive) - Enable AI proctoring toggle - “Save & Schedule” button
<b>4. Assign Exam to Students</b>	Assign exam to course or specific student groups.	- Dropdowns: <i>Course, Batch, Section</i> - Student list with checkboxes - “Assign Exam” button
<b>5. Manage Exams</b>	View, edit, delete, or duplicate exams.	- List view of all exams with status (Active/Completed) - Edit/Delete icons
<b>6. Live Monitoring Dashboard</b>	Real-time student proctoring view.	- Grid layout: Each student tile shows name, live thumbnail from camera feed - AI alerts (colored icons per student) - “View Full Screen” or “Pause Exam” buttons
<b>7. Cheating Alerts Panel</b>	List of flagged events.	- Table of violations (student name, type, time) - Filters (date/time/type)
<b>8. Reports &amp; Analytics</b>	Summary of exams and proctoring results.	- Charts: Average marks, violations rate - “Download Report” or “Export CSV”

<b>9. Student Activity Logs</b>	View detailed AI logs for each student.	- Timestamps, screenshots, audio snippets, and AI confidence score
<b>10. Notifications Center</b>	Receive real-time alerts for cheating events.	- Push-style alerts within app - “View Event” → redirects to monitoring dashboard

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## □ Teacher Navigation Tabs (Bottom or Side Navigation)

Tab	Description
 <b>Dashboard</b>	Quick stats & ongoing exams
 <b>Exams</b>	Create, edit, assign
 <b>Monitor</b>	Real-time proctoring view
 <b>Reports</b>	Exam results & violation analytics
 <b>Profile</b>	Settings, logout

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## 3. Admin Role

### Goal:

To manage users (teachers/students), allocate courses, control exam system settings, and oversee AI system performance.

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## □ Overall Flow

Admin Login → Dashboard → Manage Users → Manage Courses/Exams → System Settings → Logs & Reports

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## □ Screens for Admin

Screen	Description	Key UI Elements
<b>1. Admin Login</b>	Secure admin access.	- Email/password fields - MFA (Multi-factor Authentication) option
<b>2. Admin Dashboard</b>	System-wide overview.	- Total users, total exams, AI alerts summary, uptime metrics - Graphs: Active vs Completed Exams

<b>3. User Management</b>	Add, edit, or delete users.	- Tabs: <i>Students, Teachers, Admins</i> - Add User form (name, email, role) - “Assign Role” dropdown
<b>4. Course Management</b>	Assign teachers to courses.	- Course list view - Dropdown: Select teacher - “Assign” button
<b>5. Exam Management</b>	View all exams across system.	- Filters: Date, subject, teacher - “Force Stop” or “Archive” options
<b>6. System Settings</b>	Configure AI and security settings.	- Toggles: Eye detection sensitivity, voice detection threshold - Data retention period, privacy options
<b>7. System Logs &amp; Reports</b>	Access AI logs, audit trails, and user activity.	- Search by user/date - Export audit log button
<b>8. Notifications Panel</b>	Manage system-wide announcements.	- Create announcement - Push to all users or selected roles

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## □ Admin Navigation Tabs

Tab	Description
 <b>Dashboard</b>	System overview
 <b>Users</b>	Manage students & teachers
 <b>Courses/Exams</b>	Manage exams and course allocations
 <b>Settings</b>	Configure AI & privacy
 <b>Reports</b>	Logs and analytics

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## □ AI/Proctoring System (Integrated, Not Separate UI)

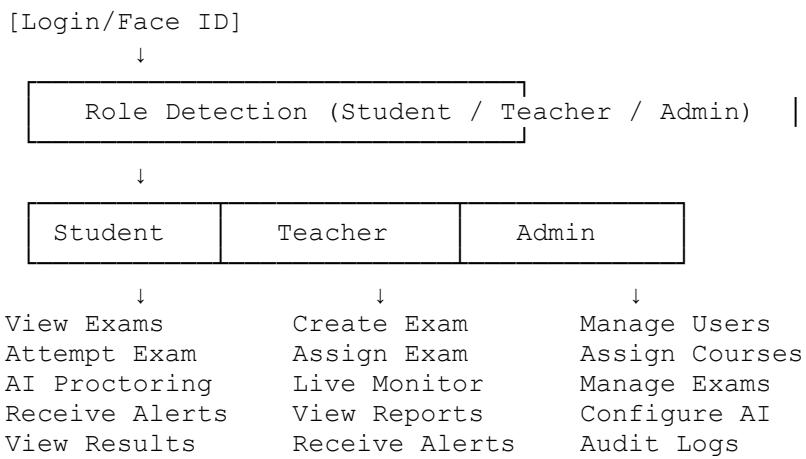
The **AI features** work *behind the scenes*, but you can include subtle indicators or admin/teacher dashboards to visualize detections.

Feature	Function	Visible UI?
 <b>Eye Movement Tracking</b>	Detect gaze direction and frequency of looking away	No (teacher sees alert)
 <b>Multiple Face Detection</b>	Detect if another person enters frame	Warning pop-up on student screen + alert on teacher dashboard
 <b>Object Detection (Phone)</b>	Identify phones or books using YOLO/CoreML	Teacher receives “Phone detected” alert

<b>Audio Monitoring</b>	Detect voices or noises	Popup for student (“Background voice detected”) + log entry for teacher
<b>Browser Activity Tracking</b>	Detect tab switch or minimize	Teacher dashboard alert
<b>Screen Recording/Screenshot</b>	Record frames or capture evidence	Teacher/admin access only
<b>Notification System</b>	Alert all relevant parties in real-time	Push notifications and logs

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## App Flow Summary Diagram (Text Representation)



## Next Step: UI Mockups

For your FYP UI design in **Figma/XD**, you should create **3 design sets** (one per role):

### Student Set (8–10 screens)

1. Face ID Login
2. Dashboard
3. Exam Schedule
4. Exam Details
5. Pre-Exam Check
6. Exam Screen (with timer, question progress, camera feed)
7. Cheating Alert Popup
8. Exam Submission
9. Results & Feedback

 **Teacher Set (7–9 screens)**

1. Login
2. Dashboard
3. Create Exam
4. Assign Exam
5. Live Monitoring
6. Alerts Panel
7. Reports / Logs
8. Student Report Detail

 **Admin Set (6–8 screens)**

1. Admin Login
2. Dashboard
3. User Management
4. Course Management
5. Exam Management
6. Settings
7. Logs & Reports