

# **USER SCENARIOS**

## **Scenario 1: Student Registration and Transition from High School**

**Scenario:** John, a new student, wants to register at the university after completing high school.

**Main Sequence:**

1. John accesses the student registration portal through the university's DOS-MS platform.
2. John logs into the system using the credentials provided after admission.
3. John completes the online registration form, entering personal and academic details.
4. The system validates the entered information for completeness and correctness.
5. John uploads necessary documents such as high school certificates and identification.
6. The system generates a unique student ID (matriculation number).
7. The data is securely stored in the university's database.
8. If any required field is left blank, the system prompts John to fill it.
9. John successfully submits the registration.
10. The system confirms the submission, and John receives a confirmation message.

**Alternative Sequence:**

- If any field is left blank, the system prompts John to complete it.
- If document upload fails, the system allows re-upload or provides alternate options.

**Special Requirements:**

- Secure storage and encryption of student data.
- Automatic student ID generation and data validation.

**Post-condition:** John's registration is complete, and his data is securely stored.

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## **Scenario 2: Student Login to DOS-MS**

**Scenario:** John needs to access his academic dashboard on the university system.

**Main Sequence:**

1. John accesses the DOS-MS login portal.
2. John enters his matriculation number and password.
3. The system authenticates John's credentials.
4. If correct, access is granted to his personal dashboard.
5. The system logs the login session.

**Alternative Sequence:**

- If the login fails, the system provides a "Forgot Password" option.
- If suspicious login is detected, the system prompts for multi-factor authentication.

**Special Requirements:**

- Secure authentication and session tracking.

**Post-condition:** John is successfully logged in to the system.

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## **Scenario 3: Course Registration**

**Scenario:** John wants to register for his semester courses through the platform.

**Main Sequence:**

1. John logs into the DOS-MS system.
2. The system displays available courses for his department and level.
3. John selects his preferred courses.
4. The system checks for prerequisites and timetable conflicts.
5. If valid, John confirms registration.
6. The system updates his course list and schedule.

**Alternative Sequence:**

- If a course has a conflict, the system notifies John and suggests alternatives.
- If course limits are exceeded, the system blocks registration.

**Special Requirements:**

- Real-time validation and prerequisite enforcement.

**Post-condition:** John's course registration is completed and stored.

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### **Scenario 4: View Course Schedule**

**Scenario:** John wants to check his class timetable for the semester.

**Main Sequence:**

1. John logs into his dashboard on DOS-MS.
2. He navigates to the “My Schedule” section.
3. The system displays a calendar view of his registered courses.
4. Course times, locations, and instructors are shown.

**Alternative Sequence:**

- If a course is rescheduled, the system updates the calendar in real time.

**Special Requirements:**

- Dynamic scheduling interface with real-time updates.

**Post-condition:** John can view and manage his course schedule.

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### **Scenario 5: Scholarship Allocation by Admin**

**Scenario:** The Dean allocates scholarships to eligible students.

**Main Sequence:**

1. The Dean logs into the administrative section of DOS-MS.
2. The system lists eligible students based on performance criteria.
3. The Dean reviews and confirms scholarship allocations.
4. The system updates records and sends notifications to recipients.

**Alternative Sequence:**

- If eligibility criteria change, the system recalculates student eligibility.
- The Dean can manually adjust allocations.

**Special Requirements:**

- Secure and auditable allocation process.

**Post-condition:** Scholarships are assigned and students are informed.

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## **Scenario 6: View Scholarship Eligibility**

**Scenario:** John wants to know if he qualifies for any scholarships.

**Main Sequence:**

1. John logs into his profile on DOS-MS.
2. He navigates to the “Scholarship Eligibility” section.
3. The system compares his academic records with eligibility criteria.
4. Results are displayed, showing eligible programs.

**Alternative Sequence:**

- If GPA is pending, eligibility is deferred until final results.

**Special Requirements:**

- Transparent eligibility criteria and privacy safeguards.

**Post-condition:** John knows his scholarship eligibility status.

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## **Scenario 7: Academic Progress Tracking**

**Scenario:** John wants to track his academic performance over time.

**Main Sequence:**

1. John logs into his dashboard.
2. He opens the “Academic Progress” section.
3. The system displays GPA, credit hours, and course history.
4. If underperformance is detected, the system flags academic probation.

**Alternative Sequence:**

- Academic advisor can leave personalized feedback.

**Special Requirements:**

- Visual indicators for GPA trends.

**Post-condition:** John can monitor and plan academic progress.

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## **Scenario 8: Extracurricular Activity Logging**

**Scenario:** John logs his extracurricular achievements for record.

**Main Sequence:**

1. John accesses the “Activities” section on DOS-MS.
2. He submits details of events and achievements.
3. The system categorizes entries by type.
4. Admin reviews and approves or rejects submissions.

**Alternative Sequence:**

- If data is incomplete, system prompts for revision.

**Special Requirements:**

- Approval workflow for activity validation.

**Post-condition:** Verified activities are added to John’s record.

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## **Scenario 9: Admin Verification of Activities**

**Scenario:** An administrator reviews student activity submissions.

**Main Sequence:**

1. Admin logs into the admin panel.
2. Pending activity entries are listed.
3. Admin reviews, approves, or rejects each submission.
4. Feedback is sent to students.

**Alternative Sequence:**

- If unclear, admin can request additional details.

**Special Requirements:**

- Clear audit trail of activity approvals.

**Post-condition:** Activity data is verified and recorded.

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## **Scenario 10: Generate Real-Time Reports**

**Scenario:** The Dean wants real-time academic or operational reports.

**Main Sequence:**

1. The Dean accesses the “Reports” module.
2. Filters and report types are selected.
3. The system generates charts, tables, or summaries.
4. Reports can be exported or shared.

**Alternative Sequence:**

- If data is missing, the system notifies the admin.

**Special Requirements:**

- Real-time data retrieval and formatting tools.

**Post-condition:** The Dean receives actionable, up-to-date insights.

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## **Scenario 11: Student Access to Academic Transcript**

**Scenario:** John wants to download his academic transcript.

**Main Sequence:**

1. John logs into DOS-MS.
2. He navigates to “Academic Transcript.”
3. The system generates a current transcript.
4. John downloads or prints the PDF.

**Alternative Sequence:**

- If grades are incomplete, system marks transcript as provisional.

**Special Requirements:**

- Official seal and signature embedded in PDF.

**Post-condition:** John receives an authenticated transcript.

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## **Scenario 12: System Backup and Data Integrity**

**Scenario:** System admin ensures secure backup of user data.

**Main Sequence:**

1. Admin configures backup schedules in the system.
2. The system creates encrypted backups daily.
3. Backups are stored on secure, redundant servers.
4. Regular data integrity checks are performed.

**Alternative Sequence:**

- If backup fails, alerts are generated for manual intervention.

**Special Requirements:**

- ISO-compliant security and recovery processes.

**Post-condition:** System data is securely backed up and restorable.

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## **Scenario 13: Secure Role-Based Access Control**

**Scenario:** The system restricts access based on user roles.

**Main Sequence:**

1. Admin defines roles (e.g., student, advisor, admin).
2. Each role is assigned access permissions.
3. The system enforces permissions during each session.
4. Unauthorized access attempts are logged.

**Alternative Sequence:**

- If elevated access is needed, request goes through admin approval.

**Special Requirements:**

- Role-based security protocols.

**Post-condition:** Sensitive data is protected and accessed appropriately.

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## **Scenario 14: Password Recovery for Students**

**Scenario:** John forgets his password and needs to reset it.

**Main Sequence:**

1. John clicks “Forgot Password” on the login page.
2. The system asks for email or security question.
3. A reset link is sent to John’s email.
4. John sets a new password.
5. The system confirms the reset.

**Alternative Sequence:**

- If the reset link expires, John must request a new one.

**Special Requirements:**

- Secure password recovery flow.

**Post-condition:** John regains secure access to the system.

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## **Scenario 15: Automated Compliance Monitoring**

**Scenario:** The system ensures compliance with institutional and legal policies.

**Main Sequence:**

1. The system runs regular audits of operations and data access.
2. Compliance violations are flagged automatically.
3. Alerts are sent to compliance officers.
4. Reports are generated and stored securely.

**Alternative Sequence:**

- If policies are updated, the system adjusts compliance checks.

**Special Requirements:**

- Integration with regulatory guidelines and auditing tools.

**Post-condition:** The system remains compliant and audit-ready.

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## **Scenario 16: Viewing University Regulations**

**Scenario:** John wants to access and read the university's official rules and regulations through the DOS-MS platform.

### **Main Sequence:**

1. John logs into the DOS-MS system using his student credentials.
2. John navigates to the "Regulations" or "Documents" section on the dashboard.
3. The system displays a categorized list of official documents, including academic policies, conduct rules, examination guidelines, and fee structures.
4. John selects the document he wants to read.
5. The system opens a PDF or web view of the selected regulation.
6. John reads or downloads the document for future reference.

### **Alternative Sequence:**

- If a document is restricted, the system notifies John of the required access level or role.
- If a document has been updated, the system highlights the changes or displays the latest version.

### **Special Requirements:**

- Secure and centralized storage of official documents.
- Version control and update notifications.

**Post-condition:** John accesses the university regulations and can view or download them as needed.

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## **Scenario 17: Submit Student Feedback**

**Scenario:** John wants to provide feedback on the quality of teaching.

### **Main Sequence:**

1. John logs into his account on DOS-MS.
2. He selects “Student Feedback” from the menu.
3. The system displays a form to rate instructors and courses.
4. John completes the ratings and optional comments.
5. He clicks "Submit."
6. The system stores the feedback anonymously and sends it to the administration.

### **Alternative Sequence:**

- If the feedback form is closed for the semester, the system shows a notification.

### **Special Requirements:**

- Anonymity and protection of personal data.

**Post-condition:** John’s feedback is stored for institutional analysis.

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## **Scenario 18: Online Tuition Payment**

**Scenario:** John wants to pay his tuition fee via DOS-MS.

### **Main Sequence:**

1. John logs into his profile.
2. He selects the “Payments” section.
3. The system displays outstanding financial obligations and accepted payment methods.
4. John selects the payment method (credit card, PayPal, etc.) and confirms the payment.
5. The payment is processed, and an invoice is automatically generated.
6. John receives the payment confirmation and a copy of the invoice.

### **Alternative Sequence:**

- If the transaction fails, the system offers options to retry or change the payment method.

### **Special Requirements:**

- Integration with the banking system and security protocols.

**Post-condition:** John’s payment is completed and recorded.

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## **Scenario 19: Appointment Booking with Dean or Advisor**

**Scenario:** John wants to book an appointment with the Dean or an academic advisor.

**Main Sequence:**

1. John goes to the “Appointments” section in DOS-MS.
2. He selects the type of appointment and person (Dean, Advisor, etc.).
3. The system shows available time slots.
4. John selects a time and confirms the booking.
5. A confirmation email/message is sent to John and the staff.

**Alternative Sequence:**

- If no time slots are available, the system suggests alternative periods.

**Special Requirements:**

- Dynamic calendar and automated notifications.

**Post-condition:** The appointment is booked and added to the calendars of both parties.

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## **Scenario 20: Career Counseling Session**

**Scenario:** John seeks career counseling to explore career options and get guidance for his future path after graduation.

### **Main Sequence:**

1. John logs into the DOS-MS platform.
2. He navigates to the "Career Counseling" section.
3. The system presents available career counseling services and available dates for appointments.
4. John selects an available slot for his counseling session.
5. The system confirms the session booking and sends a reminder to John.
6. On the scheduled date, John attends the career counseling session, either virtually or in-person.
7. During the session, the counselor provides career advice based on John's academic performance, skills, and interests.
8. After the session, John receives follow-up materials, including resources for internships, job opportunities, and relevant career fairs.
9. John can schedule follow-up sessions if necessary.

### **Alternative Sequence:**

- If John cannot attend the booked session, he can reschedule it through the platform.
- If no counselors are available during preferred times, the system will suggest alternative counselors or dates.

### **Special Requirements:**

- Integration with available career resources (internships, job postings).
- Secure storage of John's counseling session notes and follow-up materials.

**Post-condition:** John receives career guidance and resources to assist with his future career planning.