Creating a comprehensive university management system involves integrating a wide range of features to address the needs of various stakeholders, including students, faculty, administrative staff, and alumni. Here’s a list of features your web app could include:

### Student Management

1. Student Enrollment: Registration, admission forms, document submission, and verification.

2. Student Profiles: Personal details, academic history, attendance records, and extracurricular activities.

3. Course Management: Course registration, add/drop courses, and view course catalogs.

4. Class Schedules: Timetable generation, personalized schedules, and notifications for changes.

5. Grading System: Online grading, grade reports, GPA calculation, and transcript generation.

6. Attendance Tracking: Record attendance, view attendance history, and generate reports.

7. Examination Management: Schedule exams, distribute examination materials, and post results.

8. Library Management: Search catalog, borrow/return books, and manage fines.

### Faculty Management

1. Faculty Profiles: Personal details, academic background, research interests, and publications.

2. Course Management: Assign courses to faculty, upload course materials, and manage syllabi.

3. Attendance Tracking: Record class attendance and manage attendance reports.

4. Grading and Feedback: Enter grades, provide feedback, and manage student evaluations.

5. Leave Management: Request leaves, leave approvals, and track leave history.

### Administrative Management

1. User Management: Manage roles and permissions for students, faculty, and staff.

2. Fee Management: Manage fee structures, payment gateways, and generate receipts.

3. HR Management: Employee records, payroll management, and recruitment processes.

4. Facilities Management: Room bookings, maintenance requests, and asset tracking.

5. Alumni Management: Maintain alumni records, organize events, and manage donations.

6. Event Management: Schedule events, manage registrations, and communicate with participants.

7. Transport Management: Manage transport routes, schedules, and track vehicles.

### Communication and Collaboration

1. Messaging System: Internal messaging, notifications, and announcements.

2. Discussion Forums: Create discussion boards for courses, departments, and student groups.

3. Feedback System: Collect feedback from students and faculty, analyze data, and implement improvements.

### Reporting and Analytics

1. Dashboard: Overview of key metrics and KPIs.

2. Custom Reports: Generate academic and administrative reports.

3. Data Analytics: Analyze performance trends, predict outcomes, and support decision-making.

### Security and Compliance

1. Authentication and Authorization: Secure login, role-based access control, and multi-factor authentication.

2. Data Privacy: Ensure compliance with data protection regulations.

3. Audit Trails: Log user activities and maintain audit trails.

### Integration and Extensibility

1. Third-party Integrations: Integration with external systems like payment gateways, email services, and learning management systems.

2. API Access: Provide APIs for integration with other applications.

3. Modular Architecture: Design the system to be extensible with additional modules in the future.

### Miscellaneous

1. Mobile Accessibility: Responsive design and/or dedicated mobile apps.

2. Help and Support: Knowledge base, FAQs, and support ticket system.

3. Backup and Recovery: Data backup solutions and disaster recovery plans.

These features will help create a robust and scalable university management system that meets the diverse needs of a university.