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System Requirement Specification

University of Texas at Arlington

CSE 4361

Software Design Patterns

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| SRS Document Version | 1.0 |
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# 1. Appointment Scheduling Application

R1. The application shall allow users to login and manage their accounts based on respective roles.

R1.1. The application shall allow admin to create, edit, and delete user types and define their privileges.

R1.2. The application shall provide all levels of privileges pertaining to user account management and application management to the admin.

R1.3. The admin shall be able to add, edit and delete advisor account.

R1.4.The admin/advisor shall be able to create, edit and delete appointment types/services and manage the appointments as well as related fields.

The application shall allow students to manage their respective accounts.

R2. The application shall display views and provide features to the user based on the user role. (This overall requirement should be made specific.)

R2.1 The application shall provide a traditional calendar view containing day, month, and year parameters to all the users.

R2.2. A list of the available times should be displayed at the same time so that a student can select a time slot of their convenience.

R2.3. Time slots that have been reserved and time slots that are available should be distinguished on the calendar by color and enabled or disabled to be selected appropriately.

R2.4. The application shall provide advisors features to allocate windows of time on their calendar when they are available for appointments.

R2.5. The application shall allow advisors to view the details provided by the student while scheduling appointment.

R2.6. The application shall allow advisors/admin to add, edit, or delete staff associated with them.

R2.7. The application shall provide admin the feature to opt for / opt out of email notification

R2.8. The application shall provide a view for students to see which courses they have taken

R2.8.1 The application shall provide a view for students to see which courses they have not taken

R2.9.The application shall include an academic calendar.

R2.9.1.The application shall include all events across the university in the academic calendar.

R2.9.2.The application shall allow admins to add, edit, and delete academic calendars.

R2.10.The application shall provide a bug reporting option.

R2.10.1.The application shall make the bug reporting option available at any state of the application.

R2.10.2.The application shall email all admins once a bug report has been submitted.

R2.11.The application shall only allow one student to be assigned to one advisor at a time

R2.12.The application shall give privilege access for advisors to add, edit, and delete calendars.

R2.12.1.Advisors shall be able to share their calendars with other advisors

R2.13.The application shall give privilege access for advisors to add, edit, and delete appointments with a given reasoning.

R2.14.The application shall display a help/tip box for all input fields for any user.

R2.15.The application shall provide a feedback option.

R2.15.1.The application shall make the feedback option available at any state of the application.

R2.15.2.The application shall email all admins once a feedback option has been submitted.

R2.15.3.The application shall provide the following different feedback option types: what is difficult, suggestions, likes, dislikes.

R3. The application shall allow student to schedule an appointment.

R3.1.The application shall allow students to select the advisor and department.

R3.1.1.The application shall display information about the advisor once selected. (Personal bio, room number, etc…)

R3.2. The application shall allow students to select the advising type or service they seek including a field that allows the student to specify if it is not found on the list (advising for schedule, dropping a class, new students, etc.).

R3.3.The application shall display time slots based upon the type of appointment and other details specified by the students.

R3.3.1 The application shall display an X on days where there is a not time slot available based upon the type of appointment and other details specified by the students.

R3.4.Students shall be able to book an advisor with an available time slot by selecting the time slot in the calendar.

R3.4.1.Students shall not be able to book multiple appointments at a time.

R3.5.The application shall send a confirmation email to the student and the advisor if the booking was successful with a summary of the selected appointment day (advisor name, type of service, date, and time it begins). The application notifies the advisor only if the advisor opted for notification.

R3.5.1.The confirmation email shall include a pre-set yellow sheet for the student to bring to the appointment.

R3.5.2.The confirmation email shall include a list of suggested items to bring to the appointment.

R3.6.The application shall mark the time slot booked by the student as reserved or not available.

R3.7.The application shall send a notification to the students in case of any change/cancellation of the appointment they have already scheduled.

R3.8.The application shall send a reminder email to the student the day before the appointment.

R3.9.The application shall allow the student to cancel a scheduled appointment. The application shall make the slot available and update the calendar view accordingly.

R3.9.1.The application shall now allow the student to cancel a schedule appointment 2 hours prior the appointment.

R3.10.The application shall keep track of any appointments when a student does not show to an appointment.

R3.11.The application shall force the user to choose their role as a new student, transfer student, or current student before they are given further entry into the application.

R3.11.1.The application shall require the user to supply the following inputs if the user is a new student or a transfer student: first name, last name, phone number, email, major of interest, and specific reason for advising.

R3.11.2.The application shall require the user to supply the following inputs if the user is a new student: student id, first name, last name, phone number, email, major of interest, and specific reason for advising.

R3.11.2.1.The application shall reject input to the student ID number field if it contains non-integer characters.

R3.11.3.The application shall allow the user to optionally supply the following inputs if the user submitting an advising appointment: Brief description.

R4. Advisor can manage the appointments and related activities.

R4.1.The application shall allow advisors to edit or cancel an appointment with a reason for cancellation.

R.4.1.1 On cancellation of an appointment, the appointment should be removed from the advisor’s calendar as well as the application’s calendar.

R4.2.The application allows advisors to manage and update their time slots in the calendar.

R4.3. The application shall allow advisors to swap appointments with other advisors

R4.4. The application shall allow the advisor to manage and edit advising types.

R4.4.1. The application shall allow the advisor to choose required fields for appointment types.

R4.4.2. The application shall allow the advisor to choose the duration of appointment types.

R4.4.3. Whenever an appointment is modified or cancelled, the application shall notify all relevant parties (advisor and student).

R4.5.The application shall allow advisors to update their personal profiles

R5. The application shall synchronize with the advisors Microsoft Outlook (depend on OIT permission to access the system and use of Outlook API.)

R6. The application shall allow students to register with the system.

R6.1. The application shall allow students to register using their UTA email.

R6.2. The application shall validate the email address, and upon validated, shall send a temporary password to the student’s UTA email address.

R6.3. When the student login in for the first time, the application shall prompt the student to change the temporary password.

R6.4. The application shall allow the admin to set an expiration time for the temporary password.

R7. The application shall allow students request emergency advising

R7.1.The application shall email all advisors once a student has submitted an emergency advising request

R7.2.The application shall only allow emergency advising if a student advising appointment was cancel.

# Assumptions

The student database is available to the application in order to validate the students. (This assumption will not be true. The OIT will not allow us to access the database. We can at best treat this as a Design for Change in the future --- that is, making it easy to change to access the student database.)

Faculty and staff are users of the application.

The application shall provide desired level of security. (Should be made specific.)

The UI of the application shall be consistent with the UTA webpage.

Constraints:

1. The application shall be implemented in Java and JSP.
2. The application shall run on top of MySQL for the first release.
3. The application shall support BROWSER … versions …
4. The application shall not use third-party software unless prior approval is obtained from instructor.