System Requirement Specification

University of Texas at Arlington

TABLE OF CONTENTS

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 Including a lead 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 from the calendar view.
>
> R1.5. The application shall allow students to create and manage their respective accounts.
>
> R1.6 The application shall require students to update their password once every academic school year.
>
> R1.7 The application shall allow users to select for their username to be remembered for their next login.

R2. The application shall display views and provide features to the user based on the user role.

> R2.1 The application shall provide a traditional calendar view containing day, month, year parameters to all users.
>
> > R2.1.1 The application shall indicate the current time of day at the university.
> >
> > R2.1.2 The application calendar's background should be a selected UTA-related image.
> >
> > R2.1.3 The application shall provide a link for the UTA main website, MyMav, and Student email on the main page.
> >
> > R2.1.4 The application's calendar shall provide a dropdown for the year and month for quick searching in the calendar.
>
> 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.

R2.4.1 The application shall allow advisors to allocate recurring times 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 an appointment.

R2.6. The application shall allow admin to add, edit, or delete staff accounts.

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

R2.7.1 The application shall provide admin the ability to change their opt for / out of status for email notification.

R2.8. The application's main page shall provide a search bar to search the website.

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

R3.1. The application shall allow students to select department and advisor if selection is permitted.

R3.2. The application shall allow students to select the advising task 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 should not display slots for previous dates/times.

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 The application shall allocate this time based on the type of appointment specified.

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.

R3.6. The application shall mark the time slot 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 allow the student to cancel a scheduled appointment. The application shall make the slot available and update the calendar view accordingly.

(Students should cancel the appointment and make a new one.)

R3.10　The application may time out if the student waits too long while trying to schedule an appointment.

R3.11. The application shall require the student to provide Student ID, name, telephone, email, and a brief description of the purpose of the appointment.

R3.12. The application shall allow a prospect student to schedule an appointment with an advisor (possibly selectable by the student). The student is not required to provide a UTA student ID.

R3.13. The application shall automatically fill in the contact information if the student has an account and has logged in. The student is allowed to change the contact information. The student may request that the contact information be upated in the database.

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 shall allow advisors to manage and update their time slots in the calendar.

R4.3. The application shall allow the advisor to manage and edit advising types and associated duration.

R5. The application shall synchronize with user's Microsoft Outlook.

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 check for strong passwords.

R6.5. The application shall allow the admin to set an expiration time for the temporary password.

R7 The application shall allow users to provide feedback.

R8 The application shall allow users to report bugs.

R9 The application shall include an instructions page that demonstrates basic use of the application.

R10. The application home page shall show a list of links to different departments.

R11. The application shall allow a lead advisor of an academic department to assign students to advisors according to the first letter of the student's last name.

R12. The application shall notify students and advisors the upcoming appointments one day before, and on the date of the appointments.

R13. If the student has an account, the application shall display a summary of the student's past advising appointments, as well as the student's future appointments in a tabular format.

R14. The application shall encrypt student contact information for security purpose.

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.