**User story**

As an Administration User, I want the system to validate a Specialization’s data before saving it in the system.

**User Story Description**

**Problem**: We need to create a subject entity. We need to have validation on the specialization’s data to prevent wrong data to be entered into the system

**Solution**: We create the Specialization Entity. We add validation on the specialization form.

**Assumptions**: None.

**Pre-requisites**: None.

We do not have a specialization entity to keep all the types of specializations in the system. We need a new table to keep track of all the subjects.

**Table (Specialization)**

**Columns**

* Abbreviation
  + String
  + Mandatory
  + Primary
  + Capital Only
* Full Name
  + String
  + Mandatory
* Type
  + Choice
  + Mandatory
  + Default None

We must have the following field displayed in the class form:

* Abbreviation
* Full Name
* Type

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a specialization.
* The specialization entity must be accessible from the navigation menu.

**Story Points: 3**

**User story**

As an Administration User, I want the system to validate a Subject’s data before saving it in the system.

**User Story Description**

**Problem**: We need to create a subject entity. We need to have validation on the subject’s data to prevent wrong data to be entered in the system

**Solution**: We create a Subject Entity. We add validation on the subject’s form.

**Assumptions**: None.

**Pre-requisites**: None.

We do not have a subject’s entity to keep all the types of subjects in the system. We need a new table to keep track of all the subjects.

**Table (Subject)**

**Columns**

* Name
  + String
  + Mandatory
  + Primary
* Level
  + Choice
  + Mandatory
  + Default None
* Specialization
  + Lookup
  + Mandatory

**Forms (subject)**

We must have the following field displayed in the class form:

* Name
* Level
* Specialization

**Process**

If the level is set to Junior or Senior, the specialization field becomes available for modifying

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a subject.
* The subject entity must be accessible from the navigation.

**Story Points: 3**

**User story**

As an Administration User, I want the system to validate a room’s data before saving it in the system.

**User Story Description**

**Problem**: We need to create a room Entity. We need to have validation on the room’s data to prevent wrong data to be entered in the system.

**Solution**: We create a room Table. We add validation on the room’s form.

**Assumptions**: None.

**Pre-requisites**: None.

We do not have a Room entity to keep all the types of rooms in the system. We need a new table to keep track of all the courses.

**Table (Room)**

**Columns**

* Name
  + String
  + Mandatory
  + Primary
* Type
  + Choice
  + Mandatory
* Numer
  + Integer
  + Mandatory
* Capacity
  + Integer
  + Optional

**Forms (Room)**

We must have the following field displayed in the class form:

* Name
* Type
* Number
* Capacity

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a classroom.
* The classroom Entity must be accessible from the navigation menu.

**Story Points: 3**

**User story**

 As an Administration User, I want to manage a teacher's profile in the system.

**User Story Description**

**Problem**: We need to create the teacher Table. We need to have validation on the teacher's data to prevent wrong data to be entered in the system.

**Solution**: We create a teacher table and form. We add validation on the form of the.

**Assumptions**: None.

**Pre-requisites**: None

**Table + Form (Teacher)**

**Columns**

* First Name
  + Values: The first name of a teacher must contains only characters from the alphabet. Numbers and special characters must be forbidden (except for the dash '-').
* Last Name
  + Values: Same rules as first name.
* Full Name
  + Primary field
  + Values: Must be *First Name + Last Name*
* Email Address:
  + Values: Must have an email address format.
* Phone Number
  + Values: Must have a phone number format.

**Process**

When saving a teacher (create or update), if the first name or last name was modified, we need to update the full name (primary field) of the record.

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a record in the Teacher record.
* The teacher form must be accessible from the navigation.
* When changing the names of a teacher, the full name must be updated

**Story Points: 5**

**User story**

 As an Administration User, I want to manage a group’s data in the system.

**User Story Description**

**Problem**: We need to create the group Table. We need to have validation on the group’s data to prevent wrong data to be entered in the system.

**Solution**: We create a group table and form. We add validation on the form of the group.

**Assumptions**: None.

**Pre-requisites**: None

**Table + Form (Group)**

**Columns**

* Name
  + String.
  + Mandatory
  + Primary
* Level
  + Choice
  + Mandatory
  + Default None
* Major
  + Lookup
  + Mandatory
* Minor
  + Lookup
  + Mandatory
* Number
  + Integer
  + Mandatory

Process

If the level is set to Junior or Senior, the major and minor fields become available and required for modifying

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a record in the group record.
* The group entity and its form and view must be accessible from the navigation.

**Story Points: 4**

**User story**

 As an Administration User, I want to manage a schedule’s data in the system.

**User Story Description**

**Problem**: We need to create the schedule Table. We need to have validation on the schedule’s data to prevent wrong data to be entered in the system.

**Solution**: We create a schedule table and form. We add validation on the form of the schedule.

**Assumptions**: None.

**Pre-requisites**: None

**Table + Form (Schedule)**

**Columns**

* Name
  + String
  + Mandatory
  + Primary
* Subject
  + Lookup
  + Mandatory
* startDate
  + Date and Time.
  + Mandatory
* endDate
  + Date and Time
  + Mandatory

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a record in the schedule record.
* The schedule form entity be accessible from navigation.

**Story Points: 5**

**User story**

 As an Administration User, I want to manage a Group’s schedule.

**User Story Description**

**Problem**: We need to create the Group Schedule table. We need to have validation on the group schedule’s data to prevent wrong data to be entered in the system.

**Solution**: We create a group schedule table and form. We add validation on the form of the group schedule.

**Assumptions**: None.

**Pre-requisites**: None

**Table + Form (Group Schedule)**

**Columns**

* ID
  + Integer
  + Mandatory
  + Primary
  + Autogenerated
* Group
  + Lookup
  + Mandatory
* Schedule
  + Lookup
  + Mandatory
* startDate
  + Date and Time.
  + Mandatory
* endDate
  + Date and Time
  + Mandatory

**Process**

When a Schedule is chosen or modified the application must fill the corresponding startDate and endDate from the Schedul Table

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a record in the group schedule table.
* The Group schedule entity must be accessible from navigation.

**Story Points: 7**

**User story**

 As an Administration User, I want to manage a teacher’s schedule.

**User Story Description**

**Problem**: We need to create the Teacher Schedule table. We need to have validation on the teacher schedule’s data to prevent wrong data to be entered in the system.

**Solution**: We create a teacher schedule table and form. We add validation on the form of the teacher’s schedule.

**Assumptions**: None.

**Pre-requisites**: None

**Table + Form (Teacher Schedule)**

**Columns**

* ID
  + Integer
  + Mandatory
  + Primary
  + Autogenerated
* Teacher
  + Lookup
  + Mandatory
* Schedule
  + Lookup
  + Mandatory
* startDate
  + Date and Time.
  + Mandatory
* endDate
  + Date and Time
  + Mandatory

**Process**

When a Schedule is chosen or modified the application must fill the corresponding startDate and endDate from the Schedule Table

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a record in the teacher schedule table.
* The Teacher Schedule entity must be accessible from navigation.

**Story Points: 7**

**User story**

 As an Administration User, I want to manage a room’s schedule.

**User Story Description**

**Problem**: We need to create the Room Schedule table. We need to have validation on the room schedule’s data to prevent wrong data to be entered in the system.

**Solution**: We create a teacher schedule table and form. We add validation on the form of the room schedule.

**Assumptions**: None.

**Pre-requisites**: None

**Table + Form (Room Schedule)**

**Columns**

* ID
  + Integer
  + Mandatory
  + Primary
  + Autogenerated
* Room
  + Lookup
  + Mandatory
* Schedule
  + Lookup
  + Mandatory
* startDate
  + Date and Time.
  + Mandatory
* endDate
  + Date and Time
  + Mandatory

**Process**

When a Schedule is chosen or modified the application must fill the corresponding startDate and endDate from the Schedule Table

**Acceptance Criteria**

* All mentioned validation must be done when creating/updating a record in the room schedule table.
* The Room Schedule entity must be accessible from navigation.

**Story Points: 7**

**User story**

As an Administration User, I want to see Subject Schedules.

**User Story Description**

**Problem**: We need to have a way to view all the subject schedules.

**Solution**: We create a new Subject Schedule view.

**Assumptions**: None.

**Pre-requisites**: Subject and Schedule entities are in place.

**View (Subject Schedule)**

Here are the fields we want displayed in the view of Subject Schedules

**Columns**

* Group
* Teacher
* Room
* startDate
* endDate

**Acceptance Criteria**

* We can access the subject schedules under subject entity.

**Story Points: 4**

**User story**

As an Administration User, I want to be able to view the schedule views in a calendar or grid format.

**User Story Description**

**Problem**: We need to have a way to view all of the schedules in a calendar view.

**Solution**: We add and option to display the schedules in a in a calendar view.

**Assumptions**: None.

**Pre-requisites**: Subject Schedules view and Teacher Schedules, Group Schedules and Room Schedules entities are in place.

**Process**

When accessing a subject’s, teacher’s, group’s or a room’s schedule views, we have the option to choose between either a grid view or a calendar view.

**Acceptance Criteria**

* We can display the different schedules in a calendar format.
* **Story Points: 6**

**Estimation: 1🡪 7 sprint 3; remaining sprint 4**

**Nice to have: sprint 4+6**

**nice to have: (might need some modifications)**

**User story**

As an Administration User, I want the solution to prevent me from creating conflicting schedules.

**User Story Description**

**Problem**: We need to have a way to prevent us from creating conflicting schedules.

**Solution**: We add a method to stop the user from entering contradicting records in the schedules table.

**Assumptions**: None.

**Pre-requisites**: Schedules entity is in place.

**Process**

When creating/updating a record in the schedules entity the solution must prevent us from doing so if the same time slot is occupied.

**Acceptance Criteria**

* The mentioned above criteria is met.

**Time Estimation**

* Analysis: 1.0h
* Dev:5.0h
* Peer Review: 1.0h
* Peer Review Fix: 1.0h
* Total: 8.0h

**User story**

As an Administration User, I want to be able to see an overview of the schedules for all teachers.

**User Story Description**

**Problem**: We need to have a way to view all the teachers’ schedules.

**Solution**: ???.

**Assumptions**: None.

**Pre-requisites**: Schedules and Teacher entities are in place.

**View (???)**

Here are the fields we want displayed in the view of ???

**Columns**

* startDate
* endDate
* class
* teacher
* classroom

**Acceptance Criteria**

* The mentioned above criteria is met.

**Time Estimation**

* Analysis: 1.0h
* Dev:5.0h
* Peer Review: 1.0h
* Peer Review Fix: 1.0h
* Total: 8.0h

**User story**

As an Administration User, I want to be able to see an overview of the schedules for all classrooms.

**User Story Description**

**Problem**: We need to have a way to view all the classrooms’ schedules.

**Solution**: ???.

**Assumptions**: None.

**Pre-requisites**: Schedules and Classroom entities are in place.

**View (???)**

Here are the fields we want displayed in the view of ???

**Columns**

* startDate
* endDate
* class
* teacher
* classroom

**Acceptance Criteria**

* The mentioned above criteria is met.

**Time Estimation**

* Analysis: 1.0h
* Dev:5.0h
* Peer Review: 1.0h
* Peer Review Fix: 1.0h
* Total: 8.0h

**User story**

As teacher or student, I want to be able to view the different schedules but not modify or delete.

**User Story Description**

**Problem**: We need to have a way to prevent non-administrative users to modify the records.

**Solution**: We add user roles for Students and Teachers to prevent them adding or modifying records.

**Assumptions**: None.

**Pre-requisites**: All entities are in place.

New Role/Roles User/Student and Teacher.

**Acceptance Criteria**

* The mentioned above criteria is met.

**Time Estimation**

* Analysis: 1.0h
* Dev:5.0h
* Peer Review: 1.0h
* Peer Review Fix: 1.0h
* Total: 8.0h

**User story**

As teacher or student, I want the solution to fill automatically the schedule of a semester.

**User Story Description**

**Problem**: We need to have a way to fill automatically the schedule of a semester

**Solution**: ???

**Assumptions**: None.

**Pre-requisites**: All entities are in place.

???

**Acceptance Criteria**

* The mentioned above criteria is met.

**Time Estimation**

* Analysis: 1.5h
* Dev:12.0h
* Peer Review: 1.5h
* Peer Review Fix: 1.0h
* Total: 16.0h