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| **Timetable Generator** |
| Step 1 |
| Functional Requirements Specification |
| Use Cases & Acceptance Criteria |

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| --- | --- |
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| 0.2.0 | 28/09/2015 | Ihor Dvorsky | Section 3.1 ‘M.FCL.01 Create Faculty’ was added. |
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Document Reference

| **#** | **Document Name** | **Description** |
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Glossary of Terms

| **#** | **Acronym** | **Interpretation** |
| --- | --- | --- |
|  |  |  |

# Introduction

This document has been executed by TG Group in Analysis Phase of Step 1 of Timetable Generator Project.

## Document Purpose

This document defines functional requirements for Step 1 of Timetable Generator Project.

## Approach

This document consists of ...

## Use-Cases Numbering Rules

Use-Cases listed in this document are numbered according to the following rule:

*<Short Name of Actor>.<Short Name of Entity>.<Sequential Number of Use-Case>.<Short Name Use-Case>*

*<Short Name of Actor>* is a short name of actor in the system. See **table 1** below for details.

*<Short Name of Entity>* is a short name of entity in the system. See **table 2** below for details.

*<Sequential Number of Use-Case>* is a number that starts from 1 and is increased by 1 in scope of <Short Name of Actor>.<Short Name of Entity>.

<Short Name of Use-Case> is a brief description of Use Case

Table 1 Short Name of Actor

| **#** | **Actor** | **Short Name** |
| --- | --- | --- |
|  | Student | S |
|  | Teacher | T |
|  | Methodologist | M |
|  | Administrator | A |

Table 2 Short Name of Entity

| **#** | **Actor** | **Short Name** |
| --- | --- | --- |
|  | Faculty | FCL |
|  | Department (Cathedra) | DPR |
|  | Teacher | TCH |
|  | Specialization | SPC |
|  | Student | STD |
|  | Subject | SBJ |
|  | Group | GRP |
|  | Building | BLD |
|  | Room | ROM |
|  | Day | DAY |
|  | Pair | PAR |
|  | Week | WEK |
|  | Timetable | TMT |
|  |  |  |
|  |  |  |

# Object Model

This section defines basic entities that are used in the system.

## Object Relation

This section contains high-level object model overview of the system. It defines basic entities and relations between them graphically.

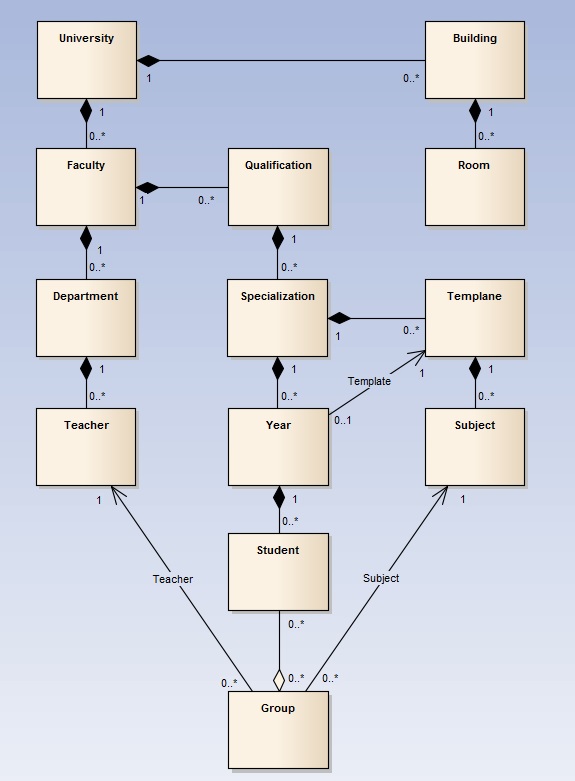


Figure 1 Summary Object Model

## Object Type Details

This section defines object types and their attributes in detail.

### Faculty

* + - 1. Description

‘Faculty’ represents a faculty of any university.

* + - 1. Attributes

Table 3 Attributes of 'Faculty'

| **Order Number** | **Attribute Name** | **Attribute Type** | **Properties** | **Description** |
| --- | --- | --- | --- | --- |
|  | Name | text | Required  Unique | Name of ‘Faculty’ |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

### Department

* + - 1. Description

‘Department’ represents a department (cathedra) of any faculty.

* + - 1. Attributes

Table 3 Attributes of 'Faculty'

| **Order Number** | **Attribute Name** | **Attribute Type** | **Properties** | **Description** |
| --- | --- | --- | --- | --- |
|  | Name | text | Required  Unique | Name of ‘Faculty’ |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

# Use Cases

## A.FCL.01 Create Faculty

### Status

|  |  |
| --- | --- |
| **Use-Case Status** | Under preparation  Ready for approval  **Approved** |
| **Approved When** | DD.MM.YYYY |

### Inputs

* ‘Name’ of ‘New Faculty’.
* Parameters values of ‘New Faculty’.

### Acceptance Criteria

#### **As a methodologist, I should be able to see list of faculties, which exist in the system.**

#### **As a methodologist, I should be able to create ‘New Faculty’ with given ‘Name’.**

#### **As a methodologist, I should be able to put values of parameters of already created ‘Faculty’.**

#### **As a methodologist, I should be able to see values of already put parameters.**

### Open questions

| **No.** | **Question** | **Answer** | **Status** |
| --- | --- | --- | --- |
|  |  |  | Open |
|  |  |  | Closed |

## A.FCL.02 Update Faculty

### Status

|  |  |
| --- | --- |
| **Use-Case Status** | Under preparation  **Ready for approval**  Approved |
| **Approved When** | DD.MM.YYYY |

### Inputs

* ‘Faculty’ to be updated.

### Acceptance Criteria

#### **As a methodologist, I should be able to see list of faculties, which exist in the system.**

#### **As a methodologist, I should be able to update ‘Name’ of given ‘Faculty.**

#### **As a methodologist, I should be able to update values of parameters of given ‘Faculty’.**

#### **As a methodologist, I should be able to see values of already updated parameters.**

### Open questions

| **No.** | **Question** | **Answer** | **Status** |
| --- | --- | --- | --- |
|  |  |  | Open |
|  |  |  | Closed |

## A.FCL.03 Delete Faculty

### Status

|  |  |
| --- | --- |
| **Use-Case Status** | **Under preparation**  Ready for approval  Approved |
| **Approved When** | DD.MM.YYYY |

### Inputs

* ‘Faculty’ to be deleted.

### Acceptance Criteria

#### **As a methodologist, I should be able to see list of faculties, which exist in the system.**

#### **As a methodologist, I should be able to delete given ‘Faculty’ in case if any child object is exist.**

#### **As a methodologist, I should be able to delete given ‘Faculty’ with all child objects.**

### Open questions

| **No.** | **Question** | **Answer** | **Status** |
| --- | --- | --- | --- |
|  |  |  | Open |
|  |  |  | Closed |

## T.TCH.01 Authorization

### Status

|  |  |
| --- | --- |
| **Use-Case Status** | Under preparation  Ready for approval  **Approved** |
| **Approved When** | DD.MM.YYYY |

### Inputs

* Teacher’s email and password for authorization.

### Acceptance Criteria

#### **As a teacher, I should be able to see panel of authorization, which exist in the system.**

#### **As a teacher, I should be able to login in the system using my email and password.**

#### **As a teacher, I should be able to restore information about my email or password in case of forgetting it.**

### Open questions

| **No.** | **Question** | **Answer** | **Status** |
| --- | --- | --- | --- |
| 1. |  |  | Open |
| 2. |  |  | Closed |

## T.TCH.02 Profile

### Status

|  |  |
| --- | --- |
| **Use-Case Status** | Under preparation  Ready for approval  **Approved** |
| **Approved When** | DD.MM.YYYY |

### Inputs

* None.

### Acceptance Criteria

#### **As a teacher, I should be able to see my profile information after logging in the system.**

#### **As a teacher, I should be able to change my email and password in profile settings.**

#### **As a teacher, I should be able to log out from the system.**

### Open questions

| **No.** | **Question** | **Answer** | **Status** |
| --- | --- | --- | --- |
| 1. |  |  | Open |
| 2. |  |  | Closed |

## S.STD.01 Authorization

### Status

|  |  |
| --- | --- |
| **Use-Case Status** | Under preparation  Ready for approval  **Approved** |
| **Approved When** | DD.MM.YYYY |

### Inputs

* Student’s email and password for authorization.

### Acceptance Criteria

#### **As a student, I should be able to see panel of authorization, which exist in the system.**

#### **As a student, I should be able to login in the system using my email and password.**

#### **As a student, I should be able to restore information about my email or password in case of forgetting it.**

### Open questions

| **No.** | **Question** | **Answer** | **Status** |
| --- | --- | --- | --- |
| 1. |  |  | Open |
| 2. |  |  | Closed |

## S.STD.02 Profile

### Status

|  |  |
| --- | --- |
| **Use-Case Status** | Under preparation  Ready for approval  **Approved** |
| **Approved When** | DD.MM.YYYY |

### Inputs

* None.

### Acceptance Criteria

#### **As a student, I should be able to see my profile information after logging in the system.**

#### **As a student, I should be able to change my email and password in profile settings.**

#### **As a student, I should be able to log out from the system.**

### Open questions

| **No.** | **Question** | **Answer** | **Status** |
| --- | --- | --- | --- |
| 1. |  |  | Open |
| 2. |  |  | Closed |