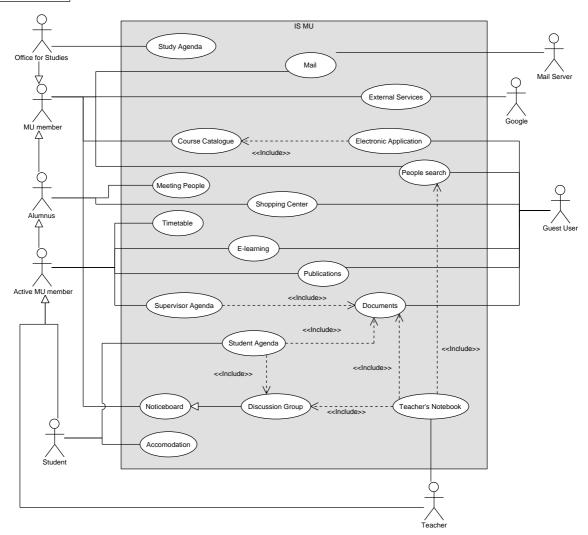
IS MU - PV167 Project

Faculty of Informatics Radek Oslejsek

Use Case Diagram

Overview





Name	Value
Name	Overview
Show Information Item Option	2

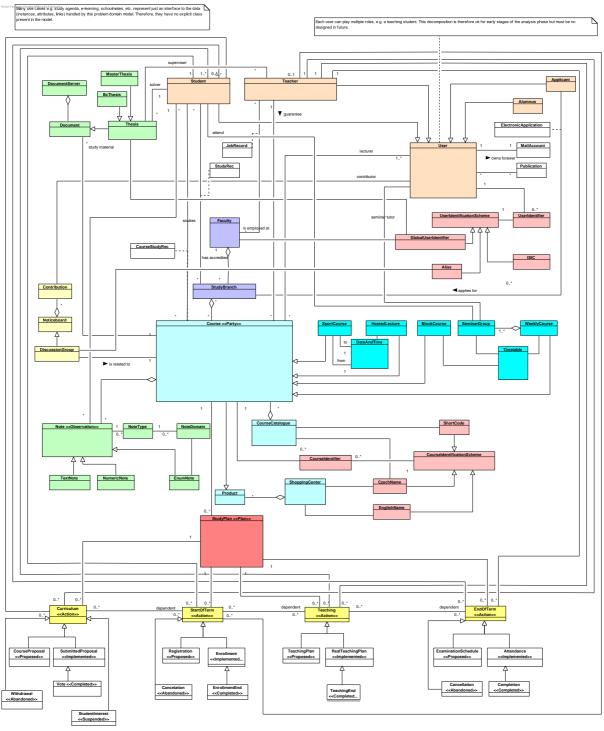
Name	Description
♀ Office for Studies	Employee of the office for studies.
₹ MU member	
₹ Alumnus	Ex-student, e.g. a past student with no active study at MU.
웃 Active MU member	User with active relationship with MU, e.g. active student, internal or external teacher, employee, etc.
₹ Student	Active student, i.e. a student with at least one active study at MU.

₹ Teacher	Internal or external teacher. This role includes PhD students as well.
₹ Google	Currently, this actor covers Google Apps, Google Mail and Google Disk.
nail Server	SMTP server for sending e-mail. Incoming mails are stored directly in IS MU.
웃 Guest User	Non-authenticated user, e.g. guest users, applicants, etc.
■ N/A	Hala 422551 Bocanova 422450
ElectronicApplication	Users can create and submit electronic applications to MU, browse study fields, view status of submitted applications, view statistics, etc.
Shopping Center	Users can purchase products and services offered by MU, e.g. courses, books, gifts, cards. It's possible to pay via various methods, check status of orders and print invoice.
Accomodation	Students can find available dormitory accommodation as well as information about school-owned canteens. Dormitory fees are paid using electronic account accessible and manageable from this agenda.
● E-learning	Active members can prepare E-courses using provided tools and templates. Courses can be labeled and categorized based on difficulty level, topic, estimated completion time etc. Any visitor to the site can start any E-course, however progress saving is only offered to registered users.
Meeting People	MU members can contact, exchange information with and cooperate with other members even after graduation (the access to IS MU and email account are for life). Some of the tools to achieve this are Activities (displays activities of friends and group members), Personal Page, My Friends, Groups, Blogs, Discussion Group, Noticeboard, Bookmarks, etc.
External Services	MU members can use free external services from providers like Google, Microsoft. Services compatible with MU account are Google Mail, Google Disk and Documents, Google Calendar, Google Keep, etc.
Discussion Group	All registered users can join discussion here with both read and write access. Any registered member can start and moderate new topical group. Each course has associated discussion group moderated by teachers of the course.
Noticeboard	Globally visible space where notices can be posted by the school administration, IS administration or other authorized personnel. Notices have assigned priority and target group, only members of the target group can see the notice.
Documents	Serves as a repository for arbitrary textual data, media etc. Each user has their own document repository where they can upload anything within allowed quotas. Document owner can choose to publish it to other selected users or publicly.
Course Catalogue	Users can search information about any course in the Course Catalogue. Some of the searching criteria are course name, abstract, teacher, code, faculty, etc. 'AND', 'OR', '%' can be used in searched expression. It's also possible to browse and print faculty or term calendars.

Active MU members can display and print their timetable in various formats. There are several types of timetable, e.g. student timetable, timetable of a course(s), timetable of a teacher(s), timetable of rooms. Student Agenda Student can access materials for enrolled courses and browse catalogue of all available courses. Student can display summary information about their studies and statistical comparison to other students. Study related events, such as new awarded course points or seminar attendance info, are aggregated in the agenda. Student can choose to monitor any discussion group, new events from the group will pop up as events in the agenda. Active members can list their publications such as journal entries and books. Any visitor to the site can browse and search for publications submitted by the users. Supervisor Agenda Course supervisors can use this agenda to upload materials for the course. Submitted homework can be viewed by the supervisors for grading, feedback for students can be posted here. There is one notebook per course taught, one user can teach any number of courses simultaneously. List of students enrolled in the course is available, students can be graded and group emails can be sent to all students of the course. Teacher can choose to be notified of any posts in the discussion group associated with the course. Teacher can upload materials for the course and set visibility of the uploaded materials. Study Agenda Office for Studies has access to information about courses, information about studies of specific students, managing study fields, managing absences, etc. People search Users can search for a MU member by their name and surname. There are advanced search options like relation to the university (employee, student, inactive member), faculty. MU members can send or receive e-mails via mail.muni.cz domain. It's also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature, etc.		
of all available courses. Student can display summary information about their studies and statistical comparison to other students. Study related events, such as new awarded course points or seminar attendance info, are aggregated in the agenda. Student can choose to monitor any discussion group, new events from the group will pop up as events in the agenda. Active members can list their publications such as journal entries and books. Any visitor to the site can browse and search for publications submitted by the users. Course supervisors can use this agenda to upload materials for the course. Submitted homework can be viewed by the supervisors for grading, feedback for students can be posted here. Teacher's Notebook Teacher's Notebook There is one notebook per course taught, one user can teach any number of courses simultaneously. List of students enrolled in the course is available, students can be graded and group emails can be sent to all students of the course. Teacher can choose to be notified of any posts in the discussion group associated with the course. Teacher can upload materials for the course and set visibility of the uploaded materials. Study Agenda Office for Studies has access to information about courses, information about studies of specific students, managing study fields, managing absences, etc. Depole search Users can search for a MU member by their name and surname. There are advanced search options like relation to the university (employee, student, inactive member), faculty. Mail Mu members can send or receive e-mails via mail.muni.cz domain. It's also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature, etc.	Timetable	formats. There are several types of timetable, e.g. student timetable,
Supervisor Agenda Course supervisors can use this agenda to upload materials for the course. Submitted by the users. Course supervisors can use this agenda to upload materials for the course. Submitted homework can be viewed by the supervisors for grading, feedback for students can be posted here. There is one notebook per course taught, one user can teach any number of courses simultaneously. List of students enrolled in the course is available, students can be graded and group emails can be sent to all students of the course. Teacher can choose to be notified of any posts in the discussion group associated with the course. Teacher can upload materials for the course and set visibility of the uploaded materials. Study Agenda Office for Studies has access to information about courses, information about studies of specific students, managing study fields, managing absences, etc. People search Users can search for a MU member by their name and surname. There are advanced search options like relation to the university (employee, student, inactive member), faculty. MU members can send or receive e-mails via mail.muni.cz domain. It's also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature, etc.	Student Agenda	of all available courses. Student can display summary information about their studies and statistical comparison to other students. Study related events, such as new awarded course points or seminar attendance info, are aggregated in the agenda. Student can choose to monitor any discussion group, new events from
Agenda Course. Submitted homework can be viewed by the supervisors for grading, feedback for students can be posted here. There is one notebook per course taught, one user can teach any number of courses simultaneously. List of students enrolled in the course is available, students can be graded and group emails can be sent to all students of the course. Teacher can choose to be notified of any posts in the discussion group associated with the course. Teacher can upload materials for the course and set visibility of the uploaded materials. Study Agenda Office for Studies has access to information about courses, information about studies of specific students, managing study fields, managing absences, etc. Users can search for a MU member by their name and surname. There are advanced search options like relation to the university (employee, student, inactive member), faculty. MU members can send or receive e-mails via mail.muni.cz domain. It's also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature, etc.	Publications	books. Any visitor to the site can browse and search for publications
Notebook Notebo		course. Submitted homework can be viewed by the supervisors for
about studies of specific students, managing study fields, managing absences, etc. Description of the students of specific students, managing study fields, managing absences, etc. Users can search for a MU member by their name and surname. There are advanced search options like relation to the university (employee, student, inactive member), faculty. MU members can send or receive e-mails via mail.muni.cz domain. It's also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature, etc.		number of courses simultaneously. List of students enrolled in the course is available, students can be graded and group emails can be sent to all students of the course. Teacher can choose to be notified of any posts in the discussion group associated with the course. Teacher can upload
are advanced search options like relation to the university (employee, student, inactive member), faculty. MU members can send or receive e-mails via mail.muni.cz domain. It's also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature, etc.	Study Agenda	about studies of specific students, managing study fields, managing
also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature, etc.	People search	are advanced search options like relation to the university (employee,
☐ IS MU	● Mail	also possible to save contacts, manage folders, forward messages to another e-mail address, turn on/off spam filter, set automatic signature,
	☐ IS MU	

Class Diagram

Problem Domain Model

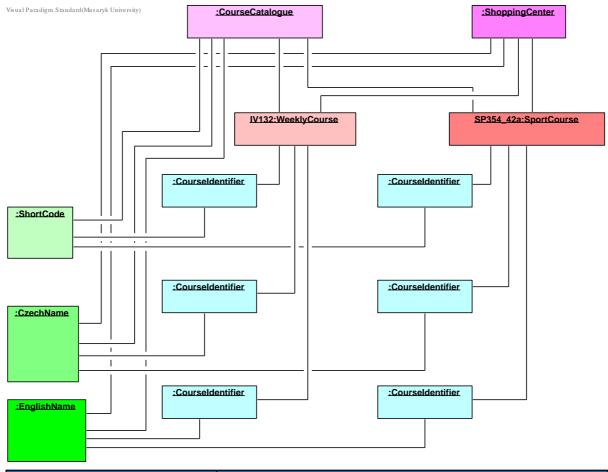


Name	Value
Name	Problem Domain Model
Show Information Item Option	2

Name	Description
MasterThesis	- South Priori
Applicant	
Student	
Teacher	
DocumentServer	
BcThesis	
Alumnus	
Thesis	
Document	
■ ElectronicApplication	
JobRecord	
User	
MailAccount	
StudyRec	
Publication	
UserIdentificationScheme	
UserIdentifier	
Faculty	
GlobalUserIdentifier	
CourseStudyRec	
■ ISIC	
Alias	
Contribution	
StudyBranch	
Noticeboard	
Course < <party>></party>	
SportCourse	
HostedLecture	
BlockCourse	
SeminarGroup	
WeeklyCourse	
DateAndTime	
DiscussionGroup	
Timetable	
CourseCatalogue	
ShortCode	
Note < <observation>></observation>	
NoteType	
NoteDomain	
CourseldentificationScheme	
Courseldentifier	
TextNote	

NumericNote	
EnumNote	
ShoppingCenter	
CzechName	
Product	
■ EnglishName	
StudyPlan < <plan>></plan>	
Curriculum < <action>></action>	
EndOfTerm < <action>></action>	
StartOfTerm < <action>></action>	
Teaching < <action>></action>	
CourseProposal < <proposed>></proposed>	
SubmittedProposal	
< <implemented>></implemented>	
Registration << Proposed>>	
Enrollment < <implemented>></implemented>	
TeachingPlan < <proposed>></proposed>	
RealTeachingPlan	
< <implemented>></implemented>	
ExaminationSchedule	
< <pre><<pre>roposed>></pre></pre>	
Attendance < <implemented>></implemented>	
Vote < <completed>></completed>	
Cancellation < <abandoned>></abandoned>	
Completion < <completed>></completed>	
Cancelation < <abandoned>></abandoned>	
EnrollmentEnd < <completed>></completed>	
TeachingEnd < <completed>></completed>	
Withdrawal < <abandoned>></abandoned>	
StudentInterest < <suspended>></suspended>	
■ N/A	Many use cases e.g. study agenda, e-learning, schoolmates, etc. represent just an interface to the data (instances, attributes, links) handled by this problem domain model. Therefore, they have no explicit class present in the model.
N/A	Each user can play multiple roles, e.g. a teaching student. This decomposition is therefore ok for early stages of the analysis phase but must be re-designed in future.

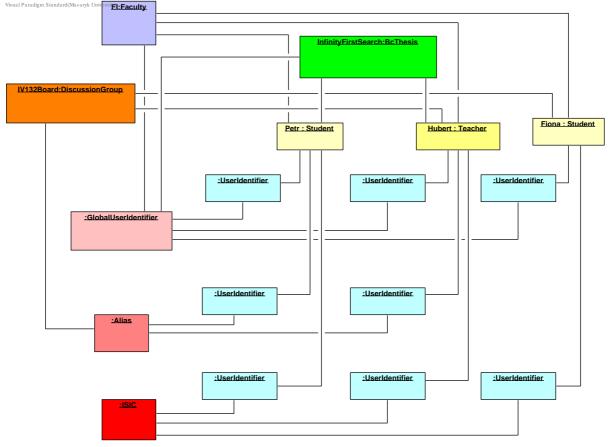
IdentificationScheme - Course



Name	Value
Name	IdentificationScheme - Course
Show Information Item Option	2

Name	Description
:CourseCatalogue	
ShoppingCenter	
IV132:WeeklyCou	se
SP354_42a:Sport(Course
:Courseldentifier	
ShortCode	
CzechName	
:EnglishName	

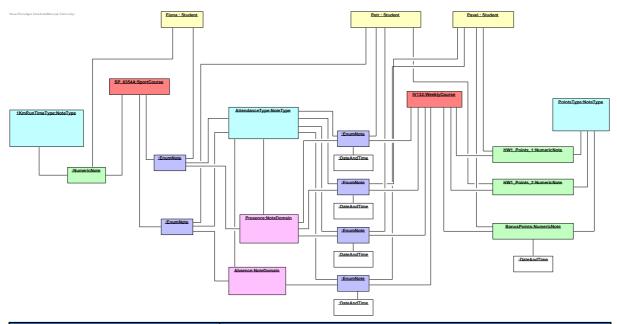
IdentificationScheme - User



Name	Value
Name	IdentificationScheme - User
Show Information Item Option	2

Name	Description
FI:Faculty	
InfinityFirstSearch:BcThesis	
IV132Board:DiscussionGroup	
ा Fiona	
Petr	
Hubert	
:UserIdentifier	
:GlobalUserIdentifier	
:Alias	
:ISIC	

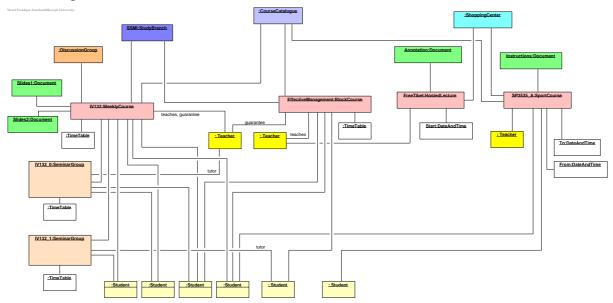
Observation - Note



Name	Value
Name	Observation - Note
Show Information Item Option	2

Name	Description
Fiona	
Petr	
Pavel	
SP_6354A:SportC	purse
IV132:WeeklyCou	se
PointsType:NoteTy	/pe
AttendanceType:N	oteType
■ 1KmRunTimeType	:NoteType
HW1_Points_1:Nu	mericNote
:DateAndTime	
:NumericNote	
EnumNote	
HW1_Points_2:Nu	mericNote
Presence:NoteDor	nain
BonusPoints:Num	ericNote
Absence:NoteDom	ain

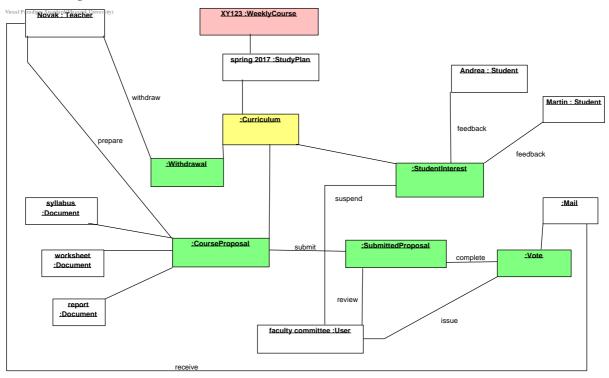
Party - Course



Name	Value
Name	Party - Course
Show Information Item Option	2

Name	Description
:CourseCatalogue	D dod, iption
ShoppingCenter	
SSMI:StudyBranch	
:DiscussionGroup	
Annotation:Document	
Instructions:Document	
Slides1:Document	
FreeTibet:HostedLecture	
SP3535_A:SportCourse	
EffectiveManagement:BlockCours	е
IV132:WeeklyCourse	
Slides2:Document	
:TimeTable	
Start:DateAndTime	
To:DateAndTime	
IV132_0:SeminarGroup	
From:DateAndTime	
IV132_1:SeminarGroup	
Student	

Study Plan - Curriculum

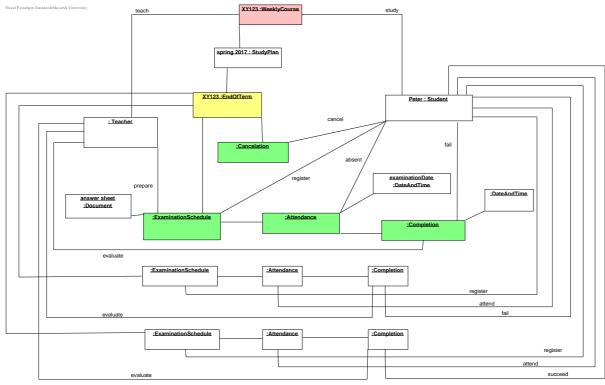


Name	Value
Name	Study Plan - Curriculum
Show Information Item Option	2

Name	Description
XY123 :WeeklyCo	
■ Novak	
spring 2017 :StudyPlan	
Andrea	
Martin	
:Curriculum	
:Withdrawal	
:StudentInterest	
syllabus :Documer	t
:Mail	
:CourseProposal	
■ :SubmittedProposa	al .
worksheet :Docum	ent
:Vote	
report :Document	

faculty	
committee :User	

Study Plan - End of term

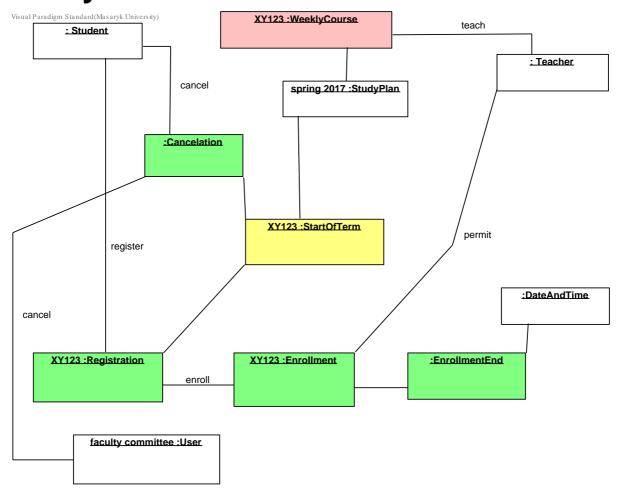


Name	Value
Name	Study Plan - End of term
Show Information Item Option	2

Name	Description
XY123 :WeeklyCourse	
spring 2017 : StudyPlan	
XY123 :EndOfTerm	
Peter	
:Cancelation	
examinationDate :DateAndTime	
:DateAndTime	
answer sheet :Document	
:ExaminationSchedule	
:Attendance	
:Completion	
ExaminationSchedule	
:Attendance	
Completion	
ExaminationSchedule	

:Attendance	
:Completion	

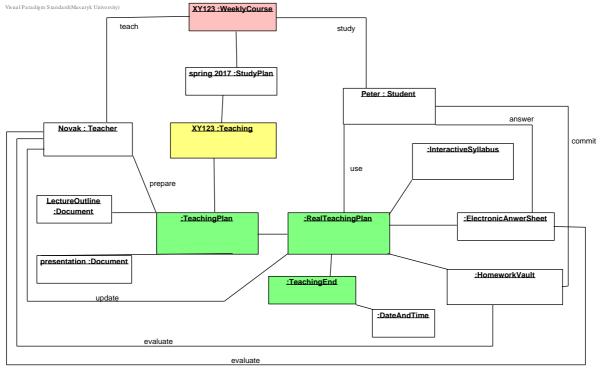
Study Plan - Start of term



Name	Value
Name	Study Plan - Start of term
Show Information Item Option	2

Name	Description
XY123 :WeeklyCo	urse
spring 2017 :StudyPlan	
Cancelation	
XY123 :StartOfTer	m
:DateAndTime	
XY123 :Registration	n
XY123 :Enrollmen	
:EnrollmentEnd	
faculty committee :User	

Study Plan - Teaching



Name	Value
Name	Study Plan - Teaching
Show Information Item Option	2

Name	Description
XY123 :WeeklyCo	urse
spring 2017 :StudyPlan	
Peter	
■ Novak	
XY123 :Teaching	
InteractiveSyllabu	S
LectureOutline :Do	cument
:TeachingPlan	
:RealTeachingPlar	
:ElectronicAnwerS	heet
presentation :Docu	ment
:HomeworkVault	
:TeachingEnd	
:DateAndTime	