

DriveIT

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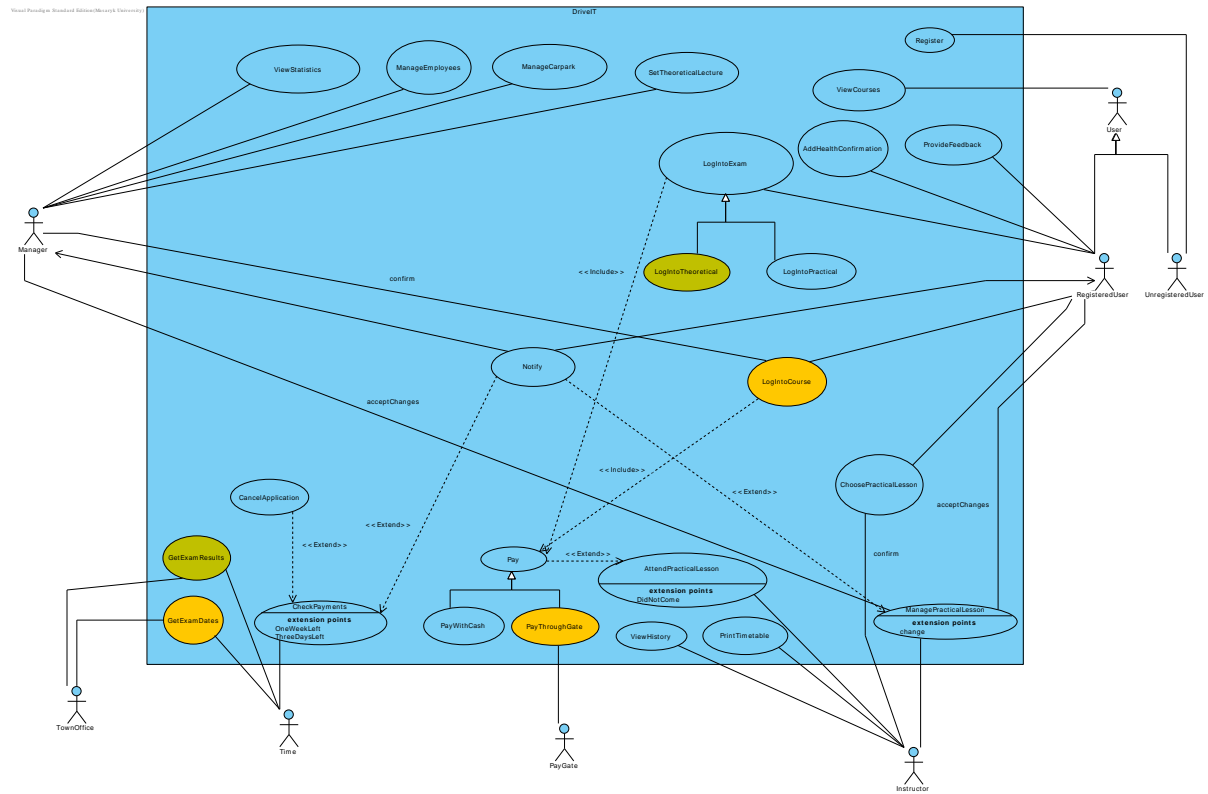
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Stereotypes


















UseCase		
Tagged Value Definitions	Level	
	Type	Enumeration
	Enumeration Values	Summary, User, Subfunction
	Complexity	
	Type	Enumeration
	Enumeration Values	Low, Medium, High
	Use Case Status	
	Type	Enumeration
	Enumeration Values	Name Only, Initial, Base, Complete, Deferred
	Implementation Status	
	Type	Enumeration
	Enumeration Values	Scheduled, Started, Partially Complete, Complete, Partially Deferred
	Preconditions	
	Type	Multi-line Text
	Post-conditions	
	Type	Multi-line Text
	Author	
	Type	Text
	Assumptions	
	Type	Multi-line Text
Case Story		

requirement		
Tagged Value Definitions	Text	
	Type	HTML
	ID	
	Type	Text
	source	
	Type	Text
	kind	
	Type	Enumeration
	Enumeration Values	Functional, Performance, Interface
	verifyMethod	
	Type	Enumeration
	Enumeration Values	Analysis, Demonstration, Inspection, Test
	risk	
	Type	Enumeration
	Enumeration Values	High, Medium, Low
	status	
	Type	Enumeration
	Enumeration Values	Proposed, Approved, Rejected, Deferred, Implemented, Mandatory, Obsolete
Include		
Extend		
use		




Use Case Diagram



Summary

Name	Description
 Manager	
 TownOffice	
 Time	
 PayGate	
 Instructor	
 RegisteredUser	
 User	
 UnregisteredUser	
 GetExamResults	
 ViewStatistics	
 ManageEmployees	
 ManageCarpark	
 ViewHistory	
 PrintTimetable	
 ManagePracticalLesson	
 SetTheoreticalLecture	
 GetExamDates	Main Flow of Events:

	<p>1. The use case starts when current time reached one week from last event.</p> <p>2. System checks if exam dates have been published by Town Office.</p> <p>3. IF exam dates are accessible</p> <p>3.1 System downloads exam dates to its database.</p> <p>3.2 System sets exam dates in database as available.</p> <p>Alternative Flows:</p> <p>If exam dates were not accessible, Manager is informed and Time starts counting another one week period.</p>
● LogIntoPractical	
● LogIntoTheoretical	
● LogIntoExam	
● ChoosePracticalLesson	
● AttendPracticalLesson	
● ProvideFeedback	
● AddHealthConfirmation	
● CancelApplication	
● Notify	
● CheckPayments	
● PayThroughGate	<p>Main Flow of Events:</p> <p>1. The use case starts when Pay is invoked by another use case and the gate option is chosen.</p> <p>2. RegisteredUser is redirected to the PayGate.</p> <p>3. RegisteredUser is asked to provide his/her credentials.</p> <p>4. IF the credentials are recognized and correct</p> <p>4.1 RegisteredUser is presented with a form of payment to fill in.</p> <p>4.2 IF RegisteredUser chooses "Pay",</p> <p>4.2.1 PayGate tries to proceed with the payment.</p> <p>4.2.2 IF the payment was successful</p> <p>4.2.2.1 RegisteredUser is notified about successful operation and money is transferred.</p> <p>4.2.3 ELSE</p> <p>4.2.3.1 RegisteredUser is notified about a problem.</p> <p>4.3 ELSE IF RegisteredUser chooses "Cancel"</p> <p>4.3.1 Operation is canceled.</p> <p>Alternative flows: If the credentials were not recognized or incorrect, RegisteredUser is prompted again.</p>
● PayWithCash	
● Pay	
● LogIntoCourse	<p>Main Flow of Events:</p> <p>1. The use case starts when a RegisteredUser chooses "Log Into Course".</p> <p>2. System returns lists of available courses.</p> <p>3. RegisteredUser chooses a course.</p> <p>4. IF RegisteredUser meets course preconditions</p> <p>4.1. System displays price and other details.</p> <p>4.2. INCLUDE Pay</p>

	<p>4.3. IF Payment was successful</p> <p>4.3.1. Send application to Manager for approval.</p> <p>4.3.2. IF Manager approves</p> <p>4.3.2.1. Assign RegisteredUser to course.</p> <p>Alternate Flows:</p> <p>If RegisteredUser does not meet course preconditions, system display message and returns to previous menu.</p> <p>If Payment was not successful three days before course starts, application is canceled.</p> <p>If Manager does not approve, application is canceled.</p>
 Register	
 ViewCourses	
 DriveIT	

Details

 **Manager**

 **TownOffice**

 **Time**

 **PayGate**

 **Instructor**

 **RegisteredUser**

 **User**

 **UnregisteredUser**

 **N/A**

 **N/A**

 **N/A**

 **GetExamResults**

 **ViewStatistics**

 **ManageEmployees**

 **ManageCarpark**

- ViewHistory
- PrintTimetable
- ManagePracticalLesson

Extension Points

change

- SetTheoreticalLecture
- GetExamDates

Details

Name	Value
Preconditions	One week period has passed. Exam dates have been published by Town Office.
Post-conditions	Exam dates are inserted into system.

- LogIntoPractical
- LogIntoTheoretical
- LogIntoExam
- ChoosePracticalLesson
- AttendPracticalLesson

Extension Points

DidNotCome

- ProvideFeedback
- N/A
- AddHealthConfirmation
- CancelApplication
- Notify
- CheckPayments

Extension Points

OneWeekLeft

ThreeDaysLeft

PayThroughGate

Details

Name	Value
Preconditions	RegisteredUser is client of online banking.
Post-conditions	none

PayWithCash

Pay

LogIntoCourse

Details




Name	Value
Preconditions	RegisteredUser is logged in the system.
Post-conditions	RegisteredUser is enrolled in a course.

Register








ViewCourses

DriveIT

Children

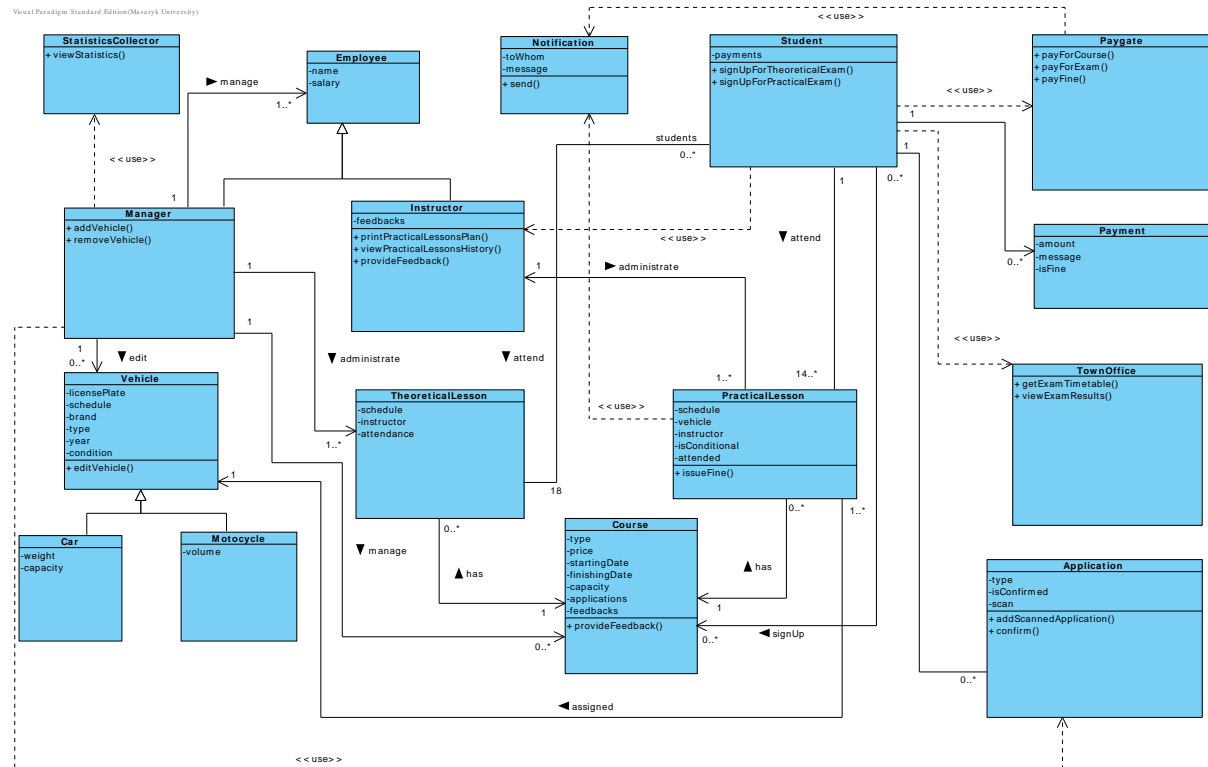
Name	Description
 ViewCourses	
 Register	
 LogIntoCourse	<p>Main Flow of Events:</p> <ol style="list-style-type: none">1. The use case starts when a RegisteredUser chooses "Log Into Course".2. System returns lists of available courses.3. RegisteredUser chooses a course.4. IF RegisteredUser meets course preconditions<ol style="list-style-type: none">4.1. System displays price and other details.4.2. INCLUDE Pay4.3. IF Payment was successful<ol style="list-style-type: none">4.3.1. Send application to Manager for approval.4.3.2. IF Manager approves<ol style="list-style-type: none">4.3.2.1. Assign RegisteredUser to course. <p>Alternate Flows:</p> <p>If RegisteredUser does not meet course preconditions, system display message and returns to previous menu.</p>

	<p>If Payment was not successful three days before course starts, application is canceled.</p> <p>If Manager does not approve, application is canceled.</p>
● Pay	
● PayWithCash	
● PayThroughGate	<p>Main Flow of Events:</p> <ol style="list-style-type: none"> 1. The use case starts when Pay is invoked by another use case and the gate option is chosen. 2. RegisteredUser is redirected to the PayGate. 3. RegisteredUser is asked to provide his/her credentials. 4. IF the credentials are recognized and correct <ol style="list-style-type: none"> 4.1 RegisteredUser is presented with a form of payment to fill in. 4.2 IF RegisteredUser chooses "Pay", <ol style="list-style-type: none"> 4.2.1 PayGate tries to proceed with the payment. 4.2.2 IF the payment was successful <ol style="list-style-type: none"> 4.2.2.1 RegisteredUser is notified about successful operation and money is transferred. 4.2.3 ELSE <ol style="list-style-type: none"> 4.2.3.1 RegisteredUser is notified about a problem. 4.3 ELSE IF RegisteredUser chooses "Cancel" <ol style="list-style-type: none"> 4.3.1 Operation is canceled. <p>Alternative flows: If the credentials were not recognized or incorrect, RegisteredUser is prompted again.</p>
● CheckPayments	
● Notify	
● CancelApplication	
● AddHealthConfirmation	
● ProvideFeedback	
● AttendPracticalLesson	
● ChoosePracticalLesson	
● LogIntoExam	
● LogIntoTheoretical	
● LogIntoPractical	
● GetExamDates	<p>Main Flow of Events:</p> <ol style="list-style-type: none"> 1. The use case starts when current time reached one week from last event. 2. System checks if exam dates have been published by Town Office. 3. IF exam dates are accessible <ol style="list-style-type: none"> 3.1 System downloads exam dates to its database. 3.2 System sets exam dates in database as available. <p>Alternative Flows:</p> <p>If exam dates were not accessible, Manager is informed and Time starts counting another one week period.</p>
● SetTheoreticalLecture	

 ManagePracticalLesson	
 PrintTimetable	
 ViewHistory	
 ManageCarpark	
 ManageEmployees	
 ViewStatistics	
 GetExamResults	

Class Diagram

Analysis Class Diagram



Summary

Name	Description
StatisticsCollector	
Student	
Paygate	
Notification	
Employee	
Instructor	
Manager	
Payment	
TownOffice	
Vehicle	
TheoreticalLesson	
PracticalLesson	
Course	
Motocycle	
Car	
Application	

Description

DriveIT Analysis Class Diagram

Details

 **StatisticsCollector**

 **Student**

 **Paygate**

 **Notification**

 **Employee**

⌕ **N/A**

 **Instructor**

 **Manager**

 **Payment**

 **TownOffice**

 **Vehicle**

 **TheoreticalLesson**

 **PracticalLesson**

⌵ **N/A**

 **Course**

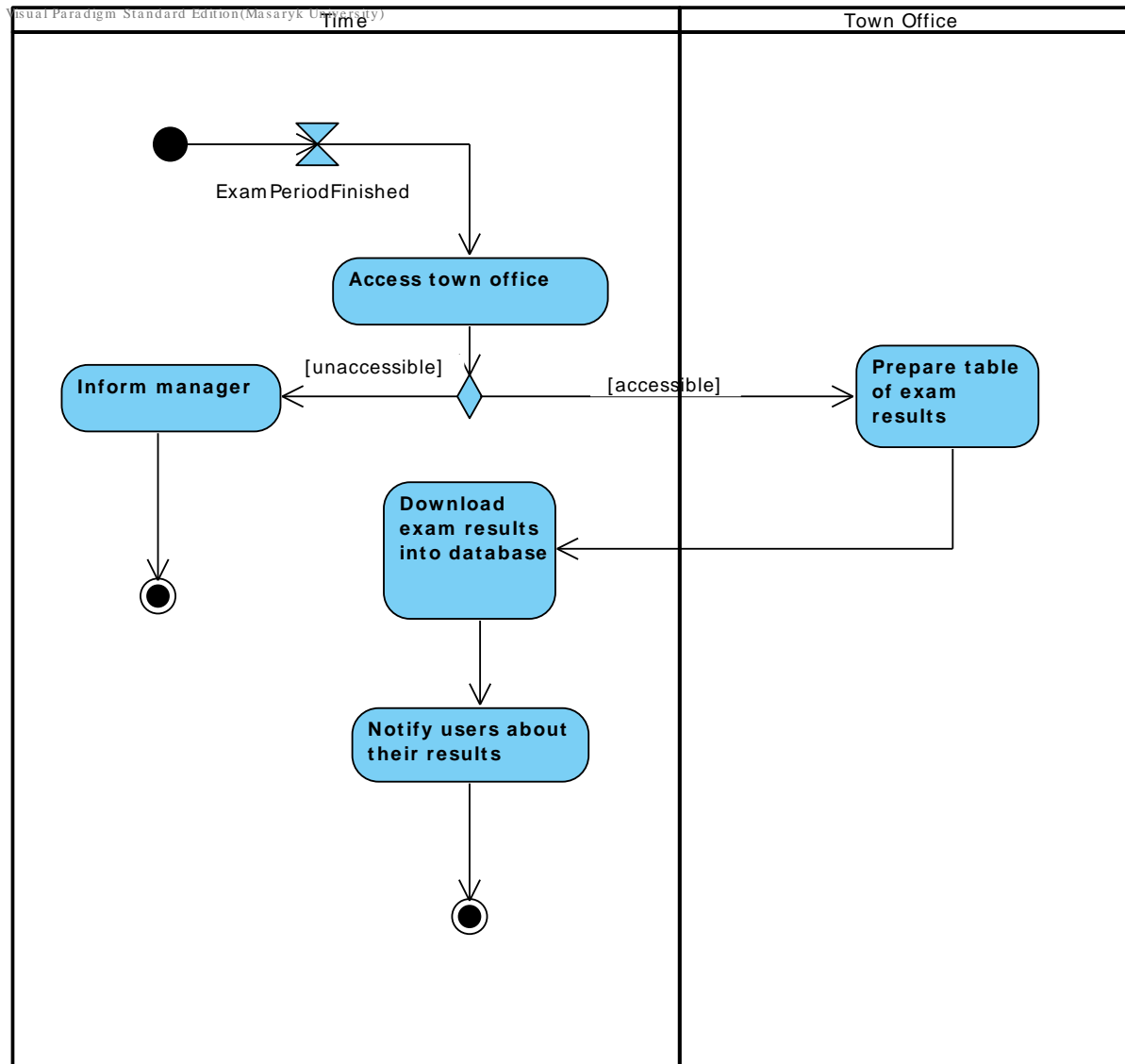
 **Motocycle**

 **Car**

 **Application**

Activity Diagram

GetExamResults












Summary


Name	Description
Swimlane	
Time	
Town Office	
ExamPeriodFinished	
Access town office	
Inform manager	
Prepare table of exam results	
Download exam results into database	
Notify users about their results	











Details

Swimlane

Activity Partitions

Time		
Contained Elements	Name	Description
	 Access town office	
	 N/A	
	 N/A	
	 Inform manager	
	 N/A	
	 Download exam results into database	
	 Notify users about their results	
	 N/A	
	 ExamPeriodFinished	

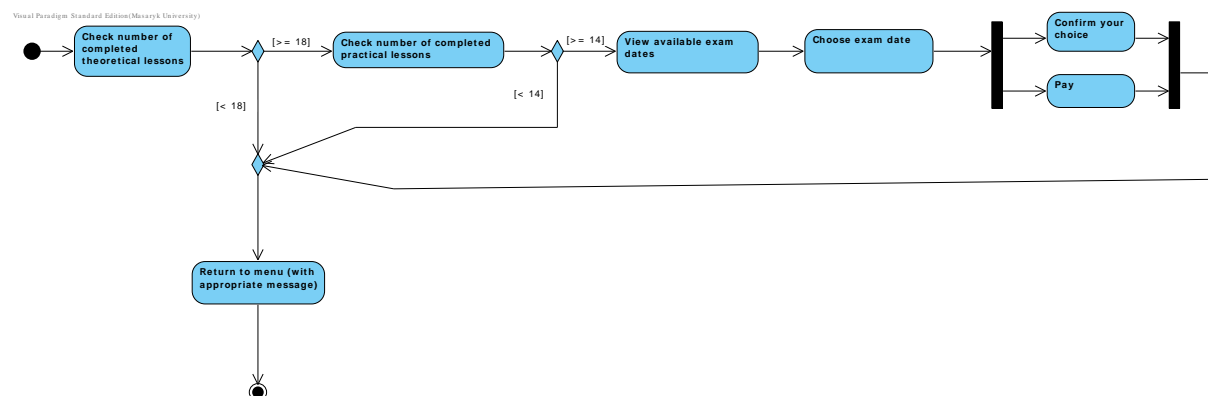
Town Office		
Contained Elements	Name	Description
	 Prepare table of exam results	

-  N/A
-  ExamPeriodFinished
-  Access town office
-  N/A
-  Inform manager
-  N/A
-  Prepare table of exam results
-  Download exam results into database
-  Notify users about their results
-  N/A

Activity Diagram

LogIntoTheoretical

Visual Paradigm Standard Edition (Macarix University)



Summary

Name	Description
Check number of completed theoretical lessons	
Check number of completed practical lessons	
View available exam dates	
Choose exam date	
Confirm your choice	
Pay	
Return to menu (with appropriate message)	

Details

N/A

Check number of completed theoretical lessons

N/A

Check number of completed practical lessons

N/A

View available exam dates

Choose exam date

↔ N/A

☐ Confirm your choice

☐ Pay

↔ N/A

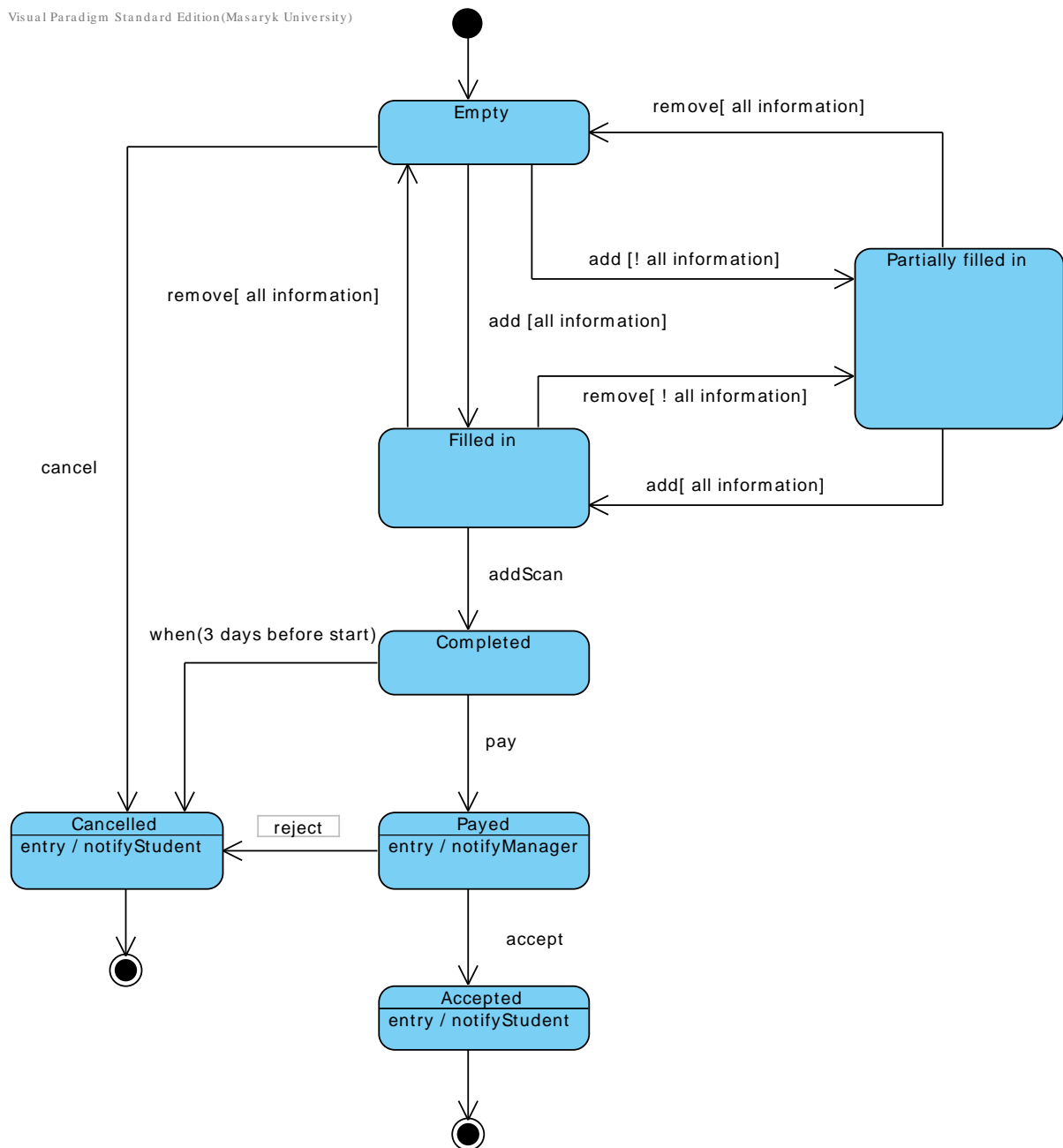
↔ N/A

☐ Return to menu (with appropriate message)

● N/A

State Machine Diagram Application

Visual Paradigm Standard Edition (Masaryk University)



Summary

Name	Description
<input type="checkbox"/> Empty	
<input type="checkbox"/> Filled in	
<input type="checkbox"/> Completed	
<input type="checkbox"/> Payed	
<input type="checkbox"/> Accepted	
<input type="checkbox"/> Cancelled	

<input type="checkbox"/> Partially filled in	
--	--

Details

☒ N/A

☐ Empty

☐ Filled in

☐ Completed

☐ Payed

Regions

Name	Description
<input type="checkbox"/> notifyManager	

☐ Accepted

Regions

Name	Description
<input type="checkbox"/> notifyStudent	

☒ N/A

☐ Cancelled

☒ N/A

☐ Partially filled in