# **DriveIT**

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# **Stereotypes**

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

Case Story

requirement			
Tagged Value Definitions	Text		
	Туре	HTML	
	ID		
	Туре	Text	
	source		
	Туре	Text	
	kind		
	Туре	Enumeration	
	Enumeration Values	Functional, Performance, Interface	
	verifyMethod		
	Туре	Enumeration	
	Enumeration Values	Analysis, Demonstration, Inspection, Test	
	risk	1	
	Туре	Enumeration	
	Enumeration Values	High, Medium, Low	
	status		
	Туре	Enumeration	
	Enumeration Values	Proposed, Approved, Rejected, Deferred, Implemented, Mandatory, Obsolete	

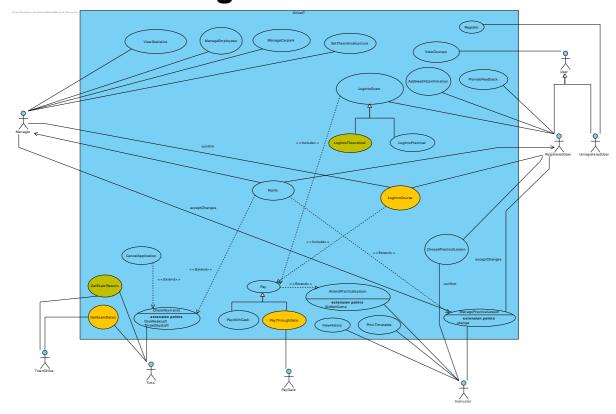
#### Include

**Extend** 

use

### Use Case Diagram

# **Use Case Diagram**



# **Summary**

Name	Description
♀ Manager	
₹ TownOffice	
₹ Time	
♀ PayGate	
₹ Instructor	
₹ RegisteredUser	
रू User	
♀ UnregisteredUser	
GetExamResults	
ViewStatistics	
ManageEmployee	3
ManageCarpark	
ViewHistory	
PrintTimetable	
ManagePracticalLe	esson
SetTheoreticalLec	ure
GetExamDates	Main Flow of Events:

	The use case starts when current time reached one week from last event.     System checks if exam dates have been published by Town Office.     IF exam dates are accessible     System downloads exam dates to its database.     System sets exam dates in database as available.  Alternative Flows:  If exam dates were not accessible, Manager is informed and Time starts
	counting another one week period.
LogIntoPractical	
LogIntoTheoretica	
LogIntoExam	
ChoosePracticalLe	
AttendPracticalLes	son
ProvideFeedback	
AddHealthConfirm	ation
CancelApplication	
Notify	
CheckPayments	
■ PayThroughGate	Main Flow of Events:  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  4.1 RegisteredUser is presented with a form of payment to fill in.  4.2 IF RegisteredUser chooses "Pay",  4.2.1 PayGate tries to proceed with the payment.  4.2.2 IF the payment was successful  4.2.2.1 RegisteredUser is notified about successful operation and money is transferred.  4.2.3 ELSE  4.2.3.1 RegisteredUser is notified about a problem.  4.3 ELSE IF RegisteredUser chooses "Cancel"  4.3.1 Operation is canceled.  Alternative flows: If the credentials were not recognized or incorrect, RegisteredUser is prompted again.
PayWithCash	
Pay	
■ LogIntoCourse	Main Flow of Events:  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  4.1. System displays price and other details.  4.2. INCLUDE Pay

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

### **Details**

- ₹ Manager
- **₹ TownOffice**
- ₹ Time
- ₹ PayGate
- **₹ Instructor**
- ₹ RegisteredUser
- <sup>₹</sup> User
- **₹ UnregisteredUser**
- ⊕EN/A
- **₩**EN/A
- **₩EN/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

- F. 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

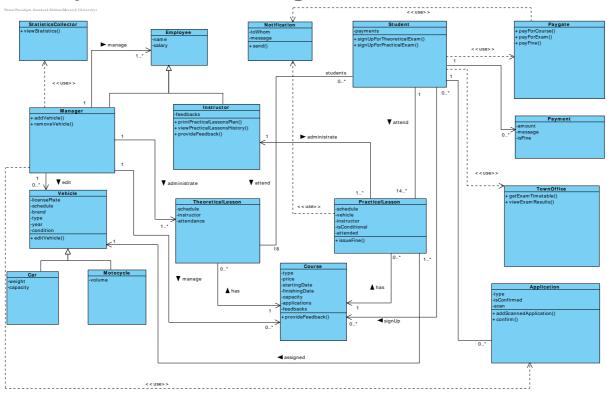
Name	Description
ViewCourses	
Register	
	Main Flow of Events:  1. The use case starts when a RegisteredUser chooses "Log Into Course".

	<ol> <li>System returns lists of available courses.</li> <li>RegisteredUser chooses a course.</li> <li>IF RegisteredUser meets course preconditions</li> <li>System displays price and other details.</li> <li>INCLUDE Pay</li> <li>IF Payment was successful</li> <li>Send application to Manager for approval.</li> <li>IF Manager approves</li> <li>Assign RegisteredUser to course.</li> </ol>
	Alternate Flows: If RegisteredUser does not meet course preconditions, system display message and returns to previous menu. If Payment was not successful three days before course starts, application is canceled. If Manager does not approve, application is canceled.
Pay	
PayWithCash	
■ PayThroughGate	Main Flow of Events:  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  4.1 RegisteredUser is presented with a form of payment to fill in.  4.2 IF RegisteredUser chooses "Pay",  4.2.1 PayGate tries to proceed with the payment.  4.2.2 IF the payment was successful  4.2.2.1 RegisteredUser is notified about successful operation and money is transferred.  4.2.3 ELSE  4.2.3.1 RegisteredUser is notified about a problem.  4.3 ELSE IF RegisteredUser chooses "Cancel"  4.3.1 Operation is canceled.  Alternative flows: If the credentials were not recognized or incorrect, RegisteredUser is prompted again.
CheckPayments	
Notify	
CancelApplication	
AddHealthConfirmation	
ProvideFeedback	
AttendPracticalLesson	
ChoosePracticalLesson	
■ LogIntoExam	
LogIntoTheoretical	

LogIntoPractical	
GetExamDates	Main Flow of Events:  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  3.1 System downloads exam dates to its database.  3.2 System sets exam dates in database as available.  Alternative Flows:  If exam dates were not accessible, Manager is informed and Time starts counting another one week period.
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

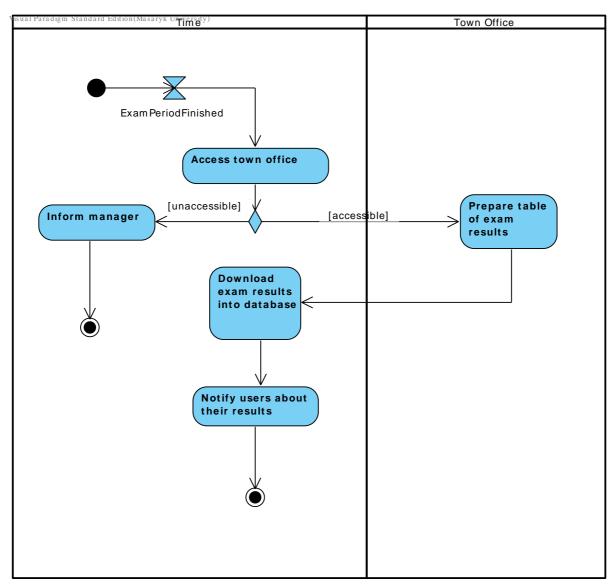
### **Details**

- StatisticsCollector
- Student
- Paygate
- Notification
- Employee
- ⊕EN/A
- Instructor
- Manager
- Payment
- **■** TownOffice
- Vehicle
- TheoreticalLesson
- PracticalLesson

- <sup>←</sup>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

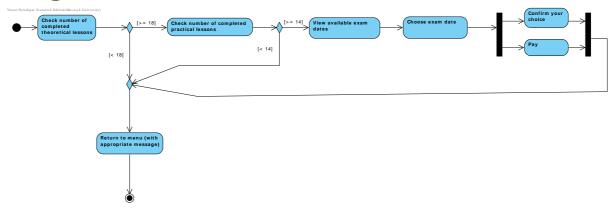
Time		
Contained Elements	Name	Description
	Access town office	
	N/A	
	→<ٍ N/A	
	Inform manager	
	● N/A	
	Download exam results into	
	database	
	Notify users about their	
	results	
	N/A	
	■ ExamPeriodFinished	

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



### **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
- **→**\$\\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