# SE 3XA3: Module Interface Specification Euneva

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# 1 MIS of GUI Module

# 1.1 Interface Syntax

## 1.1.1 Exported Access Program

Name	In	Out	Exceptions
Constructor	-	GUI	=

# 1.1.2 Exported Constants

None

## 1.1.3 Exported Types

None

## 1.2 Interface Semantics

#### 1.2.1 State Variables

Not Applicable

## 1.2.2 Environment Variables

 $\operatorname{GUI}$ 

## 1.2.3 Assumptions

None

Table 1: Revision History

Date	Version	Notes
17/03/2021	1.0	Initial version of Module Interface Specification

# 1.2.4 Access Program Semantics

 ${\bf Constructor}():$ 

Input: None

Transition: None

Output: GUI of To-do list app

# 2 MIS of Login Module

## 2.1 Interface Syntax

#### 2.1.1 Exported Access Program

Name	In	Out	Exceptions
Login	usernameArg, passwordArg	-	InvalidLoginException

#### 2.1.2 Exported Constants

None

#### 2.1.3 Exported Types

None

#### 2.2 Interface Semantics

#### 2.2.1 State Variables

Not Applicable

#### 2.2.2 Environment Variables

None

#### 2.2.3 Assumptions

A valid MACID and password will be entered as usernameArg and passwordArg

#### 2.2.4 Access Program Semantics

login(usernameArg, passwordArg):

Input: usernameArg, passwordArg

Transition: Submits entered information

Output: None

Exception: InvalidLoginException if usernameArg or passwordArg is not a valid MACID or password

## 3 MIS of Filter Courses Module

## 3.1 Interface Syntax

#### 3.1.1 Exported Access Program

Name	In	Out	Exceptions
filterCourses	shadowRoot, panelId	-	InvalidLoginException

#### 3.1.2 Exported Constants

None

## 3.1.3 Exported Types

None

## 3.2 Interface Semantics

#### 3.2.1 State Variables

Not Applicable

#### 3.2.2 Environment Variables

None

#### 3.2.3 Assumptions

None

#### 3.2.4 Access Program Semantics

filterCourses(shadowRoot):

Input: shadowRoot: CSS element

Transition: Filters courses for current semester

Output: panelID: String

# 4 MIS of AssignmentInformation Module

## 4.1 Interface Syntax

#### 4.1.1 Exported Access Program

Name	In	Out	Exce
getAssignmentInformation	classNames, classUrls	assignmentJson	
getClasses	shadowRoot, panelID	classUrls, classNames	
getAssignementDueDates	dueDateElements	dateArray	
getAssignmentCompletionStatus	completionStatusElements	completionStatusArray	
getAssignmentFolderNames	assignementFolderElements	assignementNamesArray	

#### 4.1.2 Exported Constants

None

#### 4.1.3 Exported Types

None

#### 4.2 Interface Semantics

#### 4.2.1 State Variables

Not Applicable

#### 4.2.2 Environment Variables

None

#### 4.2.3 Assumptions

None

#### 4.2.4 Access Program Semantics

 $getAssignmentInformation (classNames,\ classUrls):$ 

Input: classNames, classUrls: String arrays

Transition: Collects and returns all assignment information in a dictionary

Output: assignmentJson: dictionary

Exception: None

getClasses(shawdowRoot, panelID):

Input: shadowRoot, panelID: CSS element, String

Transition: Obtains all classUrls and classNames

Output: classUrls, classNames: String arrays

Exception: None

getAssignmentDueDates(dueDateElements):

Input: dueDateElements: CSS elements

Transition: Collects assignment due dates for every class

Output: dateArray: String array

Exception: None

getAssignmentCompletionStatus(completionStatusElements):

Input: completionStatusElements: CSS elements

Transition: Collects assignment completion status for every class

Output: completionStatusArray: String array

Exception: None

 ${\tt getAssignmentFolderNames} (as {\tt signementFolderElements}) :$ 

Input: assignementFolderElements: CSS elements

Transition: Collects assignment folder names for every class

Output: assignmentNamesArray: String array

# 5 MIS of QuizInformation Module

## 5.1 Interface Syntax

#### 5.1.1 Exported Access Program

Name	In	Out	Exceptions
getQuizInformation	classNames, classUrls	quizJson	_
getQuizFolderNames	quizFolderElements	quizNamesArray	-
getQuizDueDates	dueDateClass	dateArray	-
getQuizCompletionStatus	completionStatusElements	completionStatusArray	-
getClasses	shadowRoot, panelID	classUrls, classNames	-

#### 5.1.2 Exported Constants

None

### 5.1.3 Exported Types

None

#### 5.2 Interface Semantics

#### 5.2.1 State Variables

Not Applicable

### 5.2.2 Environment Variables

None

#### 5.2.3 Assumptions

None

#### 5.2.4 Access Program Semantics

 $getAssignmentInformation (classNames,\ classUrls):$ 

Input: classNames, classUrls: String arrays

Transition: Collects and returns all assignment information in a dictionary

Output: assignmentJson: dictionary

Exception: None

getQuizInformation(classNames, classUrls):

Input: classNames, classUrls: String arrays

Transition: Collects and returns all quiz information in a dictionary

Output: quizJson: dictionary

Exception: None

getQuizFolderNames(quizFolderElements):

Input: quizFolderElements: CSS elements

Transition: Collects quiz folder names for every class

Output: quizNamesArray: String array

Exception: None

getQuizDueDates(dueDateClass):

Input: dueDateClass: CSS elements

Transition: Collects quiz due dates for every class

Output: dateArray: String array

Exception: None

getQuizCompletionStatus(completionStatusElements):

Input: completionStatusElements: CSS elements

Transition: Collects quiz completion status for every class

Output: completionStatusArray: String array

Exception: None

getClasses(shadowRoot, panelID):

Input: shadowRoot, panelID: CSS element, String

Transition: Obtains all classUrls and classNames

Output: classUrls, classNames: String arrays

# 6 MIS of Filtering Module

## 6.1 Interface Syntax

#### 6.1.1 Exported Access Program

Name	In	Out	Exceptions
filterAssignmentInformation	assignmentData	assignment Data Filtered	-
filterQuizInformation	quizData	quizDataFiltered	-
main	-	-	-

#### 6.1.2 Exported Constants

None

#### 6.1.3 Exported Types

None

#### 6.2 Interface Semantics

#### 6.2.1 State Variables

Not Applicable

#### 6.2.2 Environment Variables

None

## 6.2.3 Assumptions

None

#### 6.2.4 Access Program Semantics

filterAssignmentInformation(assignmentData):

Input: assignmentData: dictionary

Transition: Filters all assignment information and returns a dictionary

Output: assignmentDataFiltered: dictionary

Exception: None

filterQuizInformation(quizData):

Input: quizData: dictionary

Transition: Filters all quiz information and returns a dictionary

Output: quizDataFiltered: dictionary

Exception: None

main():

Input: None

Transition: Uses other modules to combine and filter all information.

Output: None