# 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

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

Constructor():

Input: None

Transition: None

Output: GUI of To-do list app

Exception: None

# 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

Exception: None

# 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

getAssignmentFolderNames(assignementFolderElements):

Input: assignementFolderElements: CSS elements

Transition: Collects assignment folder names for every class

Output: assignmentNamesArray: String array

Exception: None

# 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

Exception: None

# 6 MIS of Filtering Module

## 6.1 Interface Syntax

### 6.1.1 Exported Access Program

| Name | In | Out | Exceptions |
|------|----|----|------------|
| filterAssignmentInformation | assignmentData | assignmentDataFiltered | - |
| 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

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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

Exception: None