# SE 3XA3: Module Interface Specification Euneva

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Table 1: Revision History

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

# 1 Introduction

This project involves a lot of front-end web development. As a result, most of the components cannot be effectively described as part of the MIS format. However, the back-end components of the software, the components that involve more logic and have more engineering based design desicions have been the main focus of this MIS.

# 2 MIS of GUI Module

# 2.1 Interface Syntax

#### 2.1.1 Exported Access Program

Name	In	Out	Exceptions
Constructor	-	GUI	-

#### 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

GUI

### 2.2.3 Assumptions

None

### 2.2.4 Access Program Semantics

Constructor():

Input: None Transition: None

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Output: GUI of To-do list app

# 3 MIS of Login Module

# 3.1 Interface Syntax

#### 3.1.1 Exported Access Program

Name	In	Out	Exceptions
Login	usernameArg, passwordArg	-	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

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

#### 3.2.4 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

# 4 MIS of FilterCourses Module

# 4.1 Interface Syntax

#### 4.1.1 Exported Access Program

Name	In	Out	Exceptions
filterCourses	shadowRoot, panelId	-	InvalidLoginException

#### 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

filterCourses(shadowRoot):

Input: shadowRoot: CSS element

Transition: Filters courses for current semester

Output: panelID: String

# 5 MIS of AssignmentInformation Module

# 5.1 Interface Syntax

#### 5.1.1 Exported Access Program

Name	In	Out	Exceptions
getAssignmentInformation	classNames, classUrls	assignmentJson	-
getClasses	shadowRoot, panelID	classUrls, class-	-
		Names	
getAssignmentDueDates	dueDateElems	dateArr	-
getAssignmentCompleteStatus	completionStatusElems	completionStatusArr	-
getAssignmentFolderNames	assignmentFolderElems	assignmentNamesArr	-

#### 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 dictio-

nary

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(dueDateElems):

Input: dueDateElems: CSS elements

Transition: Collects assignment due dates for every class

Output: dateArr: String array

Exception: None

#### get Assignment Complete Status (completion Status Elems):

Input: completionStatusElems: CSS elements

Transition: Collects assignment completion status for every class

Output: completionStatusArr: String array

Exception: None

#### getAssignmentFolderNames(assignmentFolderElems):

Input: assignmentFolderElems: CSS elements

Transition: Collects assignment folder names for every class

Output: assignmentNamesArr: String array

# 6 MIS of QuizInformation Module

# 6.1 Interface Syntax

#### 6.1.1 Exported Access Program

Name	In	Out	Exceptions
getQuizInformation	classNames, classUrls	quizJson	-
getQuizFolderNames	quizFolderElems	quizNamesArr	-
getQuizDueDates	dueDateClass	dateArr	-
getQuizCompleteStatus	completionStatusElems	completionStatusArr	-
getClasses	shadowRoot, panelID	classUrls, classNames	-

#### 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

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(quizFolderElems):

Input: quizFolderElems: CSS elements

Transition: Collects guiz folder names for every class

Output: quizNamesArr: String array

Exception: None

#### getQuizDueDates(dueDateClass):

Input: dueDateClass: CSS elements

Transition: Collects quiz due dates for every class

Output: dateArr: String array

Exception: None

#### getQuizCompleteStatus(completionStatusElems):

Input: completionStatusElems: CSS elements

Transition: Collects quiz completion status for every class

Output: completionStatusArr: String array

Exception: None

#### getClasses(shadowRoot, panelID):

Input: shadowRoot, panelID: CSS element, String Transition: Obtains all classUrls and classNames Output: classUrls, classNames: String arrays

# 7 MIS of Filtering Module

# 7.1 Interface Syntax

#### 7.1.1 Exported Access Program

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

#### 7.1.2 Exported Constants

None

#### 7.1.3 Exported Types

None

#### 7.2 Interface Semantics

#### 7.2.1 State Variables

Not Applicable

#### 7.2.2 Environment Variables

None

#### 7.2.3 Assumptions

None

#### 7.2.4 Access Program Semantics

filterAssignmentInformation(assignmentData):

Input: assignmentData: dictionary

Transition: Filters all assignment information and returns a dictionary

Output: assignmentDataFiltered: dictionary

Exception: None

# filter Quiz Information (quiz Data):

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