SE 3XA3: Module Interface Specification
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April 5, 2021

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

Table 1: **Revision History**

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
Output: GUI of To-do list app
Exception: None

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
Exception: None

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, classNames	-
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 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(dueDateElems):
Input: dueDateElems: CSS elements
Transition: Collects assignment due dates for every class
Output: dateArr: String array
Exception: None

getAssignmentCompleteStatus(completionStatusElems):
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
Exception: None

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 quiz 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
Exception: None

7 MIS of Filtering Module

7.1 Interface Syntax

7.1.1 Exported Access Program

Name	In	Out	Exceptions
filterAssignmentInformation	assignmentData	assignmentDataFiltered	-
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

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