Programming for Design Project 2 – Pseudocode

**A0: START HTML**

Create HTML

END

**A1: START navigation bar**

Set navigation bar brand (PfD – Project 2)

Set list item (Home)

Set list item (Flowchart)

Set list item (Pseudocode)

Set list item (Credits)

Set list item (Group Members)

END

**A2: START create hero (banner) class**

**A2.1: Insert background image for hero**

Use the following image for hero: <https://unsplash.com/photos/2JIvboGLeho>

Set background repeat for image (no repeat)

Set background size (100%, 100%)

Set padding (150px, 0)

Set text alignment (centre)

END

**A2.2 Insert text for hero**

Insert the following text: ISBN Lookup

Set text colour (transparent)

Set text stroke width (5px)

Set text stroke colour (white)

Set font size (100px)

END

**A3: START create display button class**

**A3.1 create button**

Set top padding (50px) to show button position

Set ID (beforeresults)

Set class (beforeresults)

Set text alignment (centre)

Set display style (block)

Insert the following text for the button: Display Results!

Set button to display showhide function (A3.2) on click

END

**A3.2 create showhide function**

Create variable (display\_button) for ID with value ‘beforeresults’

IF isbnlist file length is not equal to 0, set display\_button display style as none to hide button

Create variable (display\_table) for ID with value ‘results’

IF isbnlist file length is equal to 0, display the following window alert: File exists but is empty. Please fill in values to the file and refresh this page!

ELSE set display\_table display style as block to show results table

END

**A4 START create table function**

**A4.1 START table features**

Set font family (arial, sans-serif)

Set border-collapse (collapse)

Set width (100%)

END

**A4.2 START display results function**

Set actual results ID (results) to display results table

Set actual results class (results)

Set display style (none)

END

**A4.3 START table header properties**

Set header cell ‘Book Cover’ width (20%)

Set header cell ‘Book Details’ width (40%)

Set header cell ‘Movie Details’ width (40%)

END

**A4.4 START data & header cell properties**

Set border width (1px)

Set border style (solid)

Set border colour (#dddddd)

Set text alignment (left)

Set padding (8px)

END

**A4.5 START Table body**

Set table body ID (rowWithDetails)

END

**A5 START Link HTML to JS files**

Source 1 = isbn.js

Source 2 = myclasses.js

Source 3 = myjs.js

**A5.1 START create ISBN variables list**

Create variable (isbnlist)

Insert ISBN numbers

END

**A5.2 START classes**

**A5.2.1 START class (isbnDetail)**

Set constructor (isbn)

Let constructor belong to object (isbn)

Let constructor’s cover image belong to object (coverImageUrl)

Set asynchronous value (getBookInfo)

Set book\_dets await getBookDetail value for each isbn

Let value bookDetail display book\_dets (ISBN: ‘isbn’)

Set asynchronous value (getMovieInfo)

Set movie\_dets await getMovieDetail value for each isbn

Let value movieDetail display movie\_dets

END

**A5.2.2 START Create coverImage(isbn) function**

Set url\_a to link to Open Library (<img src="http://covers.openlibrary.org/b/isbn/)

Set size (M)

Set url\_b (.jpg”/>)

Generate cover image url (url\_a + isbn + size + url\_b)

END

**A5.2.3 START getBookDetail function**

Set asynchronous value (getBookDetail(isbn))

Create variable url\_a to link to Open Library (<https://openlibrary.org/api/books?bibkeys=ISBN>)

Create variable url\_b (&format=json&jscmd=data)

Generate book detail url (url\_a + isbn + url\_b)

Fetch url

To get book title, IF bookDetail value is undefined

DISPLAY (‘Not availableee’ + line break)

ELSE DISPLAY (Book Title: + ‘title’ value from bookDetail + line break)

To get book subtitle, IF bookDetail value is undefined

DISPLAY (‘Sorry not available’ + line break)

ELSE DISPLAY (‘subtitle’ value from bookDetail + line break)

To get author, IF bookDetail value is undefined

DISPLAY (‘Sorry not available’ + line break)

ELSE DISPLAY (Author: + ‘authors’ & ‘name’ value from bookDetail + line break)

To get publisher, IF bookDetail value is undefined

DISPLAY (‘Sorry not available’ + line break)

ELSE DISPLAY (Publisher: + ‘publisher & ‘name’ value from bookDetail + line break)

To get number of pages, IF bookDetail value is undefined

DISPLAY (‘No. of Pages: Not available for this book’ + line break)

ELSE DISPLAY (No. of Pages: + ‘number\_of\_pages’ value from bookDetail + line break)

To get publishing date, IF bookDetail value is undefined

DISPLAY (‘Sorry not available’ + line break)

ELSE DISPLAY (Published on: + ‘publish\_date’ value from bookDetail + line break)

END

**A5.2.4 START getMovieDetail function**

Set asynchronous value (getBookDetail(isbn))

Create variable url\_a to link to Open Library (<https://openlibrary.org/api/books?bibkeys=ISBN>)

Create variable url\_b (&format=json&jscmd=data)

Generate book detail url (url\_a + isbn + url\_b)

Fetch book url

Set new value url to link to Movie Database (‘https://api.themoviedb.org/3/search/movie?api\_key=50d0cc89089c60f5c082a82e7839396b&query=’ + book ISBN + title)

Fetch movie url

To get movie id, IF movieDetail value is false

DISPLAY ()

ELSE DISPLAY (movie id from movieDetail)

To get movie title, IF movieDetail value is false

DISPLAY (‘Movie Title:’ + ‘Not available’ + line break)

ELSE DISPLAY (Movie Title: + ‘title’ value from movieDetail + line break)

To get release date, IF movieDetail value is false

DISPLAY (‘Release Date:’ + ‘Not available’ + line break)

ELSE DISPLAY (Release Date: + ‘release\_date’ value from movieDetail + line break)

To get popularity, IF movieDetail value is false

DISPLAY (‘Popularity:’ + ‘Not available’ + line break)

ELSE DISPLAY (Popularity: + ‘popularity’ value from movieDetail + line break)

To get Budget, IF movieDetail value is false

DISPLAY (‘Budget:’ + ‘Not available’ + line break)

ELSE DISPLAY (Budget: $ + ‘budget’ value from movieDetail + line break)

To get revenue, IF movieDetail value is false

DISPLAY (‘Revenue:’ + ‘Not available’ + line break)

ELSE DISPLAY (Revenue: $ + ‘revenue’ value from movieDetail + line break)

To get runtime, IF movieDetail value is false

DISPLAY (‘Runtime:’ + ‘Not available’ + line break)

ELSE DISPLAY (Runtime: + ‘title’ value from movieDetail + ‘minutes’ + line break)

END

**A5.3 START main JavaScript file function**

**A5.3.1 START asynchronous function (main)**

Create empty variable (bookarr)

Let value for i = 0, i < length of isbnlist file

Loop i for each isbn number in isbnlist file

Let value for book = new values for each isbn number derived from isbnDetail constructor

Await values for book from getBookInfo

Await values for book from getMovieInfo

Push all values for book into bookarr variable

END

**A5.3.2 START content for table body function**

Create variable (content)

FOR each value in bookarr,

To display cover, IF ‘title’ value is not equal to ‘Not availableee’,

DISPLAY variable (cover) from coverImageUrl

ELSE DISPLAY variable (cover) as nocover.jpg with width(150) & height (150)

To display book details, IF ‘title’ value is not ‘Not availableee’,

DISPLAY variable (bookDetails) as ‘ISBN:’ + (isbn number) + line break + title + author + publisher + number of pages + publishing date + link to book on Open Library under ‘About this book’

ELSE DISPLAY variable (bookDetails) as ‘ISBN:’ + (isbn number) + line break + ‘No further information about this ISBN available’

To display movie details, IF ‘movieTitle’ is not equal to ‘No available’,

DISPLAY variable (movieDetails) as movie ID + movie title + popularity + release date + budget + revenue + runtime + link to movie on Movie Database under ‘About this movie’

ELSE DISPLAY variable (movieDetails) as ‘No movie for this book yet’

**A5.3.3 START assign values function**

Assign values of variable (content) to table coloumn

Set first data cell (cover)

Set second data cell (bookDetails)

Set third data cell (movieDetails)

Append variable (content) to table body (rowWithDetails)

END