

ΑΝΑΠΤΥΞΗ ΛΟΓΙΣΜΙΚΟΥ

ΠΡΟΓΡΑΜΜΑΤΙΣΤΙΚΗ ΕΡΓΑΣΙΑ ΓΙΑ
ΤΟ ΑΚΑΔΗΜΑΪΚΟ ΈΤΟΣ 2014-2015

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ΤΕΛΙΚΗ ΑΝΑΦΟΡΑ

ΔΕΚΕΜΒΡΙΟΣ 2016

οχιΙΣΤΟΡΙΚΟ ΠΡΟΗΓΟΥΜΕΝΩΝ ΕΚΔΟΣΕΩΝ οχι

Ημερομηνία	Έκδοση	Περιγραφή	Συγγραφέας
yyyy/mm/dd	x.x		

1 ΑΝΑΛΥΣΗ ΑΠΑΙΤΗΣΕΩΝ – USE CASES

Εδώ μπαίνουν οι περιγραφές των use cases που έχετε ήδη κατασκευάσει.

UseCase:SelidesCreate

ID:UC01

Actor:User

Precodition:date,name,type,keys,text,path

Flow of events:

- 1.The use case begin when the user selects “create a page”
- 2.The system ask the user what kind of page want to create
- 3.If type is photo
 - 3.1.The system ask the user for date ,name, path and key
- 4.If type is empty
 - 4.1.The system ask the user for date,key
- 5.If type is text
 - 5.1.The system ask the user for date ,name ,key and text
- 6.If type is title
 - 6.1.The system ask the user for date ,name, key
- 7.The system create the page
- 8.The system check the informations from the user
- 9.If are false
 - 9.1.The system prints an error message
 - 9.2.The use case ends
- 10.The system ask the user for the name of the album
- 11.If name exist
 - 11.1.The system add the page in the album
- 12.Else
 - 12.1.The system print an error message
- 13.The use case ends

Postcondition: The system create a page and put it in an album

UseCase: AlbumCreateBasic

ID:UC02

Actor:User

Precoditions:

Flow of events:

- 1.The use case begins when the user selects "Create Album"
- 2.the system ask the user for a name
- 3.The system create the album with name
- 4.The system ask the use if he want to add pages
- 5.If yes
 - 5.1.The system ask the user for the list of pages
 - 5.2.The system add the pages to the album
- 6.The system add the album to the list of albums
- 7.The use case ends

Postcoditions:The system creates a basic album

Use Case: CreateAlbumbySearch

id:UC03

Actor:User

Precodition:

flow of events:

- 1.The use case begins when the user search for a key
- 2.the system takes the key
- 3.the use case call the use case AlbumCreateBasic with name the key which the user gave
- 4.the system search the album from the list of albums
- 5.for every album
 - 5.1.for every page

5.1.1.the system compare the keys

5.1.2.if keys are same

5.1.2.1.the system take the page and adds the page to the
new album

6.the system add the album to the list of albums

7.the use case ends

Postcondition:the system create an album by search

Use Case: PageManager

id:UC04

Actor:User

Precodition:

flow of events:

1.the use case begins when the user selects "change the page"

2.the system ask the user for the id key and the name of the page

3.the system find the page

4.the system ask the user what want to change in the page and takes the answer

5.if the answer is "name"

5.1.the system asks the user for the new name

5.2.the system change the name

6.if the answer is "date"

6.1.the system asks the user for the new date

6.2.the system change the date

7.if the answer is "key"

7.1.the system asks the user for the new key

7.2.the system change the key

8.if the answer is "text"

8.1.the system asks the user for the new text

8.2.the system change the text

9.if the answer is "path"

9.1.the system asks the user for the new path

9.2.the system change the path

10.if the answer is "type"

10.1.the system asks for the new type

10.2.if the type isnt the same with previous

10.2.1.if the type is "photo"

10.2.1.1.the system takes the path from user

10.2.1.2.the system change the type to photo

10.2.1.3.the system change the path

10.2.1.4.the system assigned null to text

10.2.2.if te type is "empty"

10.2.2.1.the system change the type to empty

10.2.2.2.the system assigned text and path to null

10.2.3.if the answer is "title"

10.2.3.1.the system change the type to title

10.2.3.2.the system assigned text and path to null

10.2.3.3.the system asks the user for the name

10.2.3.4.the system changes the name

10.2.4.if the type is "text"

10.2.4.1.the sytem change the type to text

10.2.4.2.the system asks the user for a text

10.2.4.3.the system change the text

10.2.4.4.the system assigned the path to null

10.3.else

10.3.1.the system print an error message

10.3.2.the use case ends

Postcondition:The system change the elements of the page

Use Case AlbumViewer

id:UC05

Actor:User

Precondition:

flow of events:

- 1.the use case begins when the user selects "view Album"
- 2.for every Album in the list:
 - 2.1.the system print the album
- 3.the use case ends

Postcondition:the system prints all the album

UseCase:PageViewer

Actor:user

ID:UC06

Preconditions:

Flow of events:

- 1.The use case begins when the user selects "print pages"
- 2.The system ask the user for the name of the album
- 3.For every album in the list of albums
 - 3.1.If the i-album has the name that user gave
 - 3.1.1.The system take the album
- 4.The system ask the user if he want to print pages in order or by date
- 5.If the answer is "date"
 - 5.1.The system sorts the pages by date
 - 5.2.The system print the pages
 - 5.3.The use case ends
- 6.if the answer is "date of entry"
 - 6.1.For every page of the album
 - 6.2.The system print the page
- 7.The use case ends

Postconditions:The system prints the pages of an album

Use Case Exit

id:UC07

Actor:user

Precodition:

flow of events:

- 1.the use case begins when the user select "Exit"
- 2.the system ask the user if he want to exit
- 3.if the answer is "Yes"
 - 3.1.the system exit
- 4.the use case ends

Postcodition:exit of the system

Use Case: AddpageinAlbum

id:UC08

Precodition: give a page

flow of events:

- 1.the system take the page from user
- 2.the system ask the user the name of album that he want to add the page
- 3.the system search the album from the list of albums
- 4.the system add the page in the album
- 5.the system return the album in the list of album
- 6.the use case end

Postcodition:the system add the page in the album that user gives

2 ΣΧΕΔΙΑΣΗ ΛΟΓΙΣΜΙΚΟΥ

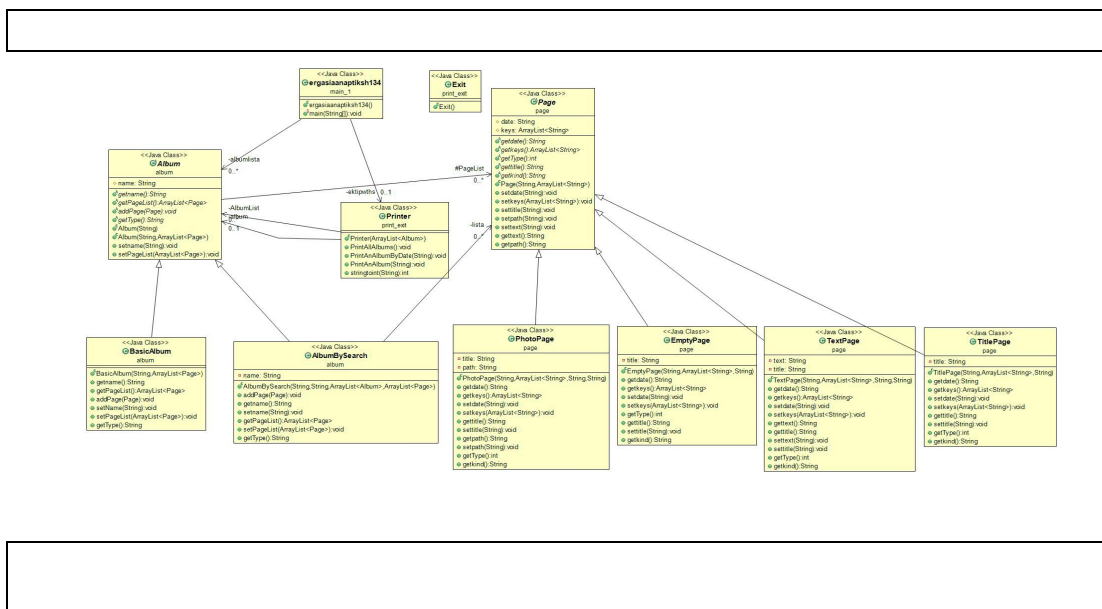
2.1 ΔΙΑΓΡΑΜΜΑΤΑ ΠΑΚΕΤΩΝ / ΥΠΟΣΥΣΤΗΜΑΤΩΝ

Αν έχουν νόημα εκ της εκφωνήσεως και υπάρχουν...

2.2 ΔΙΑΓΡΑΜΜΑΤΑ ΚΛΑΣΕΩΝ

Εδώ μπαίνουν τα διαγράμματα υποσυστημάτων, κλάσεων και ακολουθιών.

Π.χ., για το παράδειγμα με τον έλεγχο του βιβλιοπωλείου έχουμε περισσότερα του ενός διαγράμματα.



3 ΣΧΕΔΙΑΣΗ ΕΛΕΓΧΩΝ

Οι έλεγχοι που σχεδιάσθηκαν και εντάχθηκαν στην υλοποίηση περιγράφονται παρακάτω.

3.1 UNIT TESTS

TestCase: SelidesCreateTest

ID:TC01

1.for every type of page: photo, text, title, empty

1.1. The system give to the Use Case SelidesCreate the necessary

information to create the pages

- 2.The system checks if every page created correctly**
- 3. The system prints an error message if the information are wrong**
- 4. The system calls the Use Case AlbumCreateBasic and give the name “name1” of**
- 5.The system checks if the album created correctly and prints appropriate message**
- 6.The system give to SelidesCreateTest a name of album that doesnt exist**
- 7.The system checks if the Error message prints correctly when the name does not exist in the albums**
- 8.The system give to SelidesCreate the name “name1” of album**
- 9.The system checks if the page get in the album with name “name1” and prints an appropriate message**

TestCase: AlbumCreateBasicTest

ID:TC02

- 1.The system gives the details to the UseCase SelidesCreate and create a page**
- 2.The system calls the UseCase AlbumCreateBasic with name “name2” and creates an album**
- 3.The system gives the answer yes to the UseCase AlbumCreateBasic**
- 4.The system checks if the page exist in the album and prints an appropriate message**

TestCase:CreateAlbumBySearchTest

ID:TC03

- 1.The system gives to the UseCase AlbumCreateBySearch a key**
- 2.The system checks in an album exist with that key in the list of albums and prints an appropriate message**

TestCase:PageManagerTest**ID: TC04**

- 1.The system give to the UseCase PageManager the ID and a name**
- 2.For each one of : date, text, path, name , key,type**
 - 2.1 The system give answers each on of them to the UseCase PageManager**
 - 2.2 the System gives the necessary information's for this type to the UseCase PageManager**
- 3.The system searchs for the page and checks if changes is correct and prints an appropriate message**
- 4.The system calls the UseCase PageManager and give the changed page**
- 5.The system answers type to the UseCase PageManager**
- 6.The system give to the UseCase PageManager the same type**
- 7.the system checks if the error message printed correctly and print an appropriate message**

TestCase:AlbumViewerTest**ID:TC05**

- 1.The system calls the UseCase AlbumViewer and checks if prints the album correctly**
- 2.The system prints an appropriate message for every condition**

TestCase:PageViewer**ID:TC06**

- 1.The system give an album from the list of albums to the UseCase PageVierwer**
- 2.The systemgive answer "date" to the UseCase PageViewer**
- 3.The system checks if the pages printed correctly by date and prints an appropriate message**
- 4.The system give an album from the list of albums to the UseCase PageVierwer**
- 5.The system give answer "date of entry" to the UseCase PageViewer**
- 6.The system checks if the pages printed correctly by date of entry and prints an**

appropriate message

TestCase:ExitTest

ID:TC07

1.the system calls the UC Exit and answers “yes”

2.The system checks if the system exit properly and prints an appropriate message

3.2 ΕΛΕΓΧΟΣ USE CASES

TRANSIBILITY MATRIX

	UC01	UC02	UC03	UC04	UC 05	UC06	UC07
TC01	X	X					
TC02		X					
TC03			X				
TC04				X			
TC05					X		
TC06						X	
TC07							X

3.3 ΕΚΚΡΕΜΟΤΗΤΕΣ (TODO)

4 ΤΕΚΜΗΡΙΩΣΗ ΚΑΙ ΛΟΙΠΑ ΣΧΟΛΙΑ