

EASY EXAM

ISDS 3100
Section 1
Fall 2014
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EXECUTIVE SUMMARY

Easy Exam is a smartphone and tablet application that uses the current LSU test-scheduling database but is user-friendlier, less time consuming, and easily accessible. To address all the complaints students have about the current system, **Easy Exam** can be installed on any smartphone or tablet and is easily accessible with a simple click (or touch) to launch the app. Students no longer have to remember the URL or have to do a Google search to locate the test-scheduling website. **Easy Exam** offers the, now common, “Remember me” feature so students will not have to type in their login information every time they launch the app. Finally, **Easy Exam** reduces the multiple drop-down menus and numerous mouse clicks that are currently necessary to schedule an exam to three simple clicks or touches.

All LSU students who utilize the Office of Assessment and Evaluation’s (OAE) computer-based testing lab website to schedule their exams each semester will significantly benefit from this app. Today’s world for students is extremely fast-paced while expectations for students are steadily increasing. Consequently, all busy students will cherish the time savings **Easy Exam** will give them when scheduling exams as it can then be applied to completing various other important tasks. Our app delivers a significant reduction of steps necessary to schedule a required exam that today’s busy students cherish. **Easy Exam** is the one-stop, time reducing, easily accessible app that solves all current students’ complaints about the current exam scheduling system at LSU.

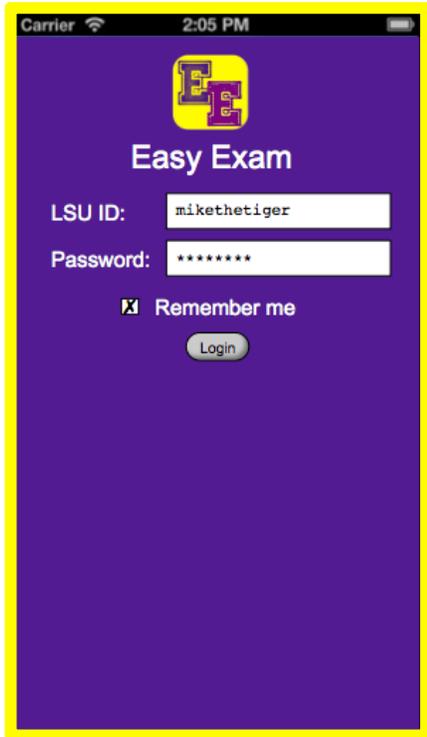
Presently, one competitor of **Easy Exam**’s is the current OAE’s computer-based testing lab website, which can be found by navigating to <http://www.cae.lsu.edu/default.asp> in any Internet browser. The Center for Assessment and Evaluation’s website is accessible to students who pay the Technology Fee, which totals approximately sixty U.S. dollars (\$60.⁰⁰), each semester as part of their Fee Bill. Unfortunately, there are a several problems regarding this site that students repeatedly mention. First, remembering the website’s uniform resource locator (URL), or its *web address*, is a common difficulty. Secondly, having to log in every time they visit the site has proven to be frustrating. Finally, there are too many steps that need to be completed in order to view open exam time slots and schedule an exam. Another competitor is on an online and iPhone app appointment scheduler called MyTime (<http://www.mytime.com/>). MyTime is free for customers to install and use. MyTime does charge each business a three percent (3%) credit card processing fee for each transaction that is paid via MyTime to cover their costs. MyTime also offers a Flat Fee Monthly Plan where a

EXECUTIVE SUMMARY

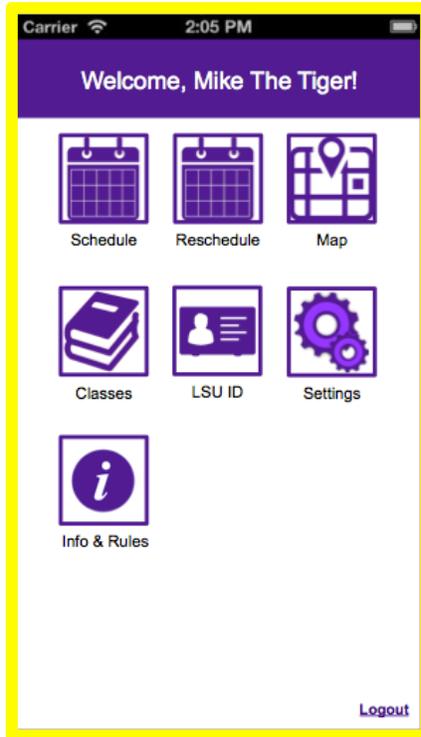
business pays ninety-nine U.S. dollars (\$99.⁰⁰) per month and that will cover credit card fees on all bookings through the MyTime website and mobile app. Although **Easy Exam** has a one-time installation fee of ninety-nine U.S. cents (\$0.⁹⁹), the students will bear no any additional costs as the Technology Fee paid each semester includes the use and maintenance of **Easy Exam**.

SCREEN DESIGNS

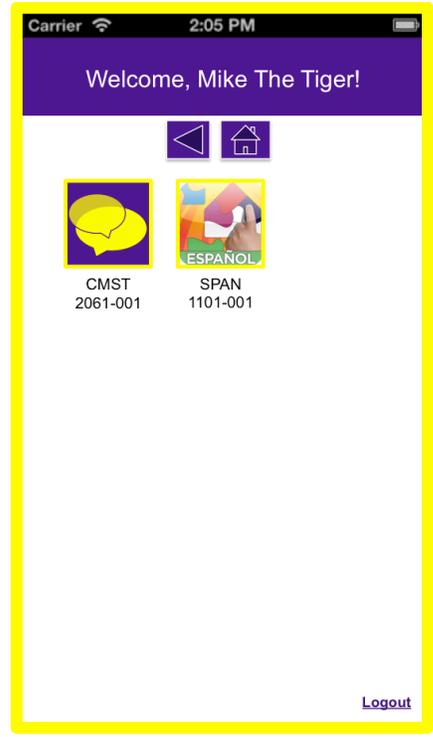
1. LOGIN



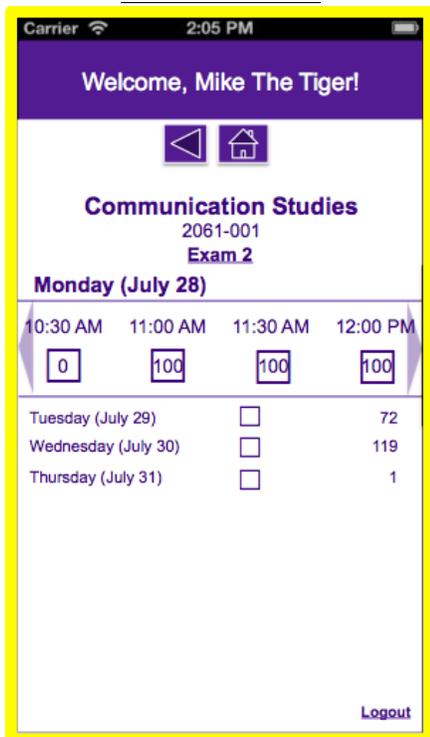
2. HOME / MAIN



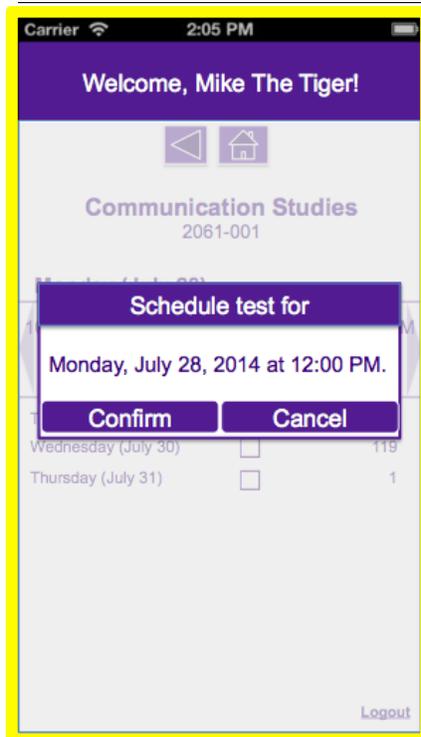
3. CLASSES



4. VIEW SCHEDULE OPTIONS



5. CONFIRM REQUESTED SLOT



FUNCTIONAL REQUIREMENTS

1.0 SELECT EXAM

- 1.1 The system must be able to identify the student's schedule for the semester and display any courses that have exams that must be taken in the testing center.
- 1.2 Once the course has been selected, the system must be able to display all the exams that must be taken in the testing center for that course.
- 1.3 The system must be able to determine if the student has already scheduled a time slot for the specific exam.
- 1.4 The system must be able to determine if the last date to schedule the same exam has passed.

2.0 SELECT DATE AND TIME

- 2.1 Once the correct course and exam has been identified, the system must be able to display all the available time slots for that exam.
- 2.2 The display will be by date (listing all the available dates and the number of available slots for each time slot) in the main part of the screen. The user can scroll through available times on the top bar for the date he/she has selected.
- 2.3 Once a user has selected a time slot, it will become temporarily unavailable pending the action taken in step 3 (confirmation).

3.0 CONFIRM TIME SLOT

- 3.1 Once the user has selected a specific date and time, the system must be able to display a confirmation message.
- 3.2 The user can select confirm, which will schedule the user for that time slot and remove it from the list of available times.
- 3.3 The user can select cancel, which will return the user to the Selection Screen and allow him/her to select another time slot or exit the system.

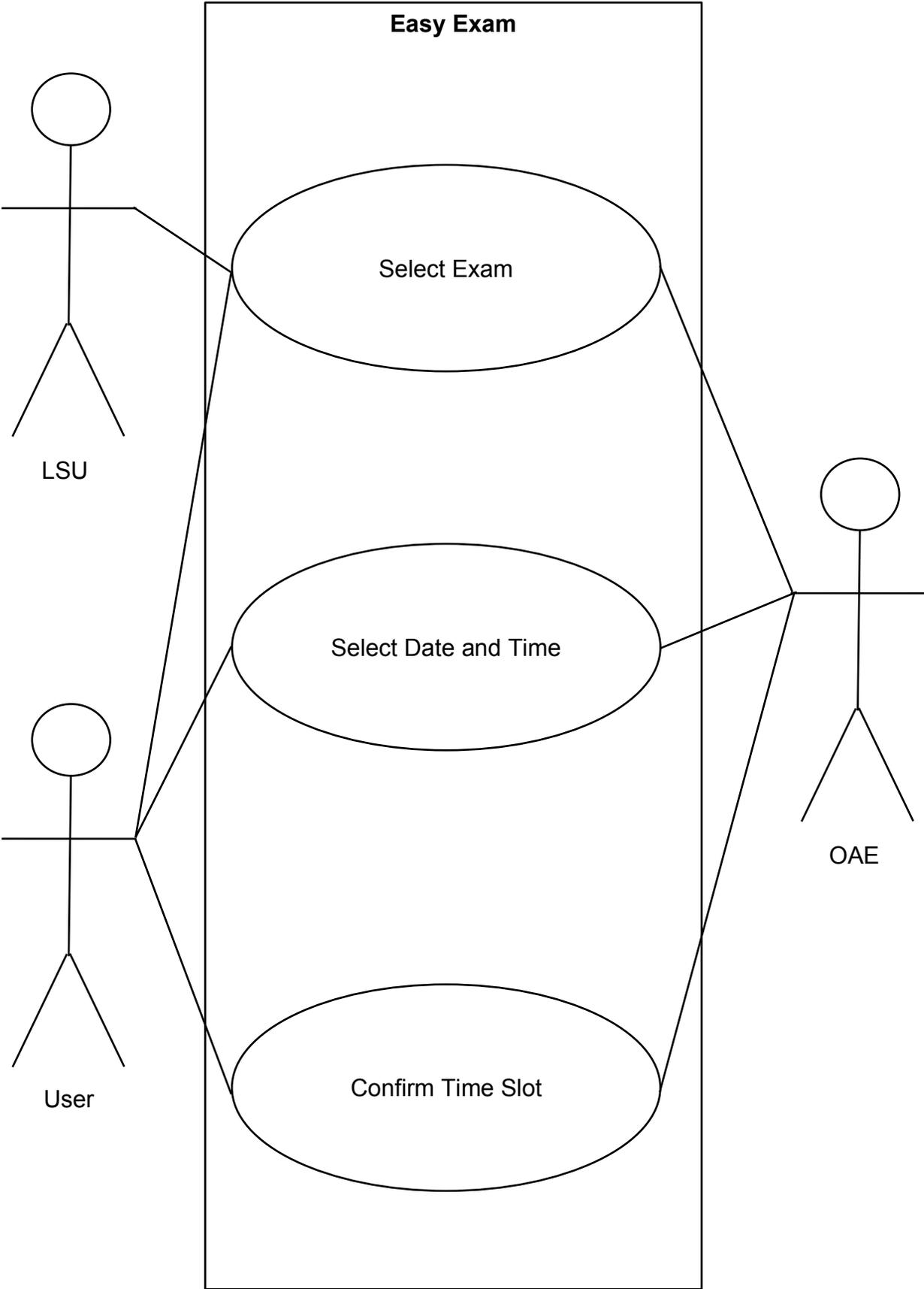
ACTOR GLOSSARY

<u>ACTOR NAME</u>	<u>SYNONYM</u>	<u>DESCRIPTION</u>
LSU	SSR, Student Records	Contains all information about a student and their enrolled courses.
OAE	Database, OAE Database	Information about the available time slots and dates for each given exam.
User	Student	The individual who wants to view available exams, schedule exams, or reschedule previously scheduled exams in the testing center.

USE CASE GLOSSARY

<u>NAME</u>	<u>DESCRIPTION</u>	<u>PARTICIPATING ACTORS & ROLES</u>
Select Exam	The system identifies the user's schedule for the semester, which is updated and maintained by LSU, and displays any courses that have exams that must be taken in the computer-based testing center.	<ul style="list-style-type: none">• LSU• OAE• User
Select Date and Time	Once the correct course and exam have been identified, the database displays all available time slots for that exam. The user can scroll through available testing dates and times. Once the user selects a time slot, it will become temporarily unavailable pending further action by the user.	<ul style="list-style-type: none">• OAE• User
Confirm Time Slot	Once the user has selected a specific date and time, the user can select confirm to schedule that time for him/her and remove it from the list of available times in the database, or select cancel and return to the selection screen or exit the system.	<ul style="list-style-type: none">• OAE• User

USE CASE DIAGRAM



EVENT RESPONSE LIST

<u>SUBSYSTEM</u>	<u>ACTOR</u>	<u>EVENT (OR USE CASE)</u>	<u>TRIGGERS</u>	<u>RESPONSES</u>
Easy Exam	User	Select Exam	The User opens the app, which sends a request to the app.	The use case concludes when the User receives the list.
Easy Exam	User	Select Date and Time	The User selects a specific exam, which sends a request to the app.	The use case concludes when the User receives the scrollable screen of available time slots.
Easy Exam	User	Confirm Time Slot	The User selects a time slot, which sends a request to the app.	The use case terminates when the OAE Database receives the time slot's permanent reservation.

{Easy Exam}

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Date: November 7, 2014

USE CASE NAME:	Select Exam	
PRIMARY BUSINESS ACTOR:	User	
OTHER PARTICIPATING ACTORS:	LSU, OAE	
DESCRIPTION:	The system identifies the user's schedule for the semester, which is updated and maintained by LSU, and displays any courses that have exams that must be taken in the computer-based testing center.	
PRE-CONDITION:	(1) The User must be an LSU student. (2) The app must be installed. (3) The User must be logged in to the app using their LSU ID and password.	
TRIGGER:	The User opens the app, which sends a request to the app.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The User opens the app.	Step 2: The app sends a request to LSU requesting scheduling information (courses) for the User.
	Step 3: LSU sends back the schedule to the app (courses and section numbers)	Step 4: The app sends a request to the OAE Database requesting all the exams at the testing center for the specific course/section combination for the User.
	Step 5: OAE sends back a list of exams, including the information about which exams the User has already scheduled.	Step 6: The app stores the information locally, and displays back to the User the courses that have exams that need to be scheduled.
ALTERNATE COURSES:	Step 1A-1: The app crashes and does not open.	
	Step 1A-2: The User forgets login information and is unable to log in.	
	Step 3A-2: LSU is unable to send back the schedule because the User is not listed in the OAE Database as enrolled in any course(s).	
	Step 5A-2: OAE is unable to send back a list of exams and/or information because the User is not listed as enrolled in any course(s).	
CONCLUSION:	The User receives the list.	
POST-CONDITION:	The User can now use the app to schedule exams.	
BUSINESS RULES	Only LSU students that are logged in to the app can view the list of courses that have exams that need to be scheduled.	
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS		
ASSUMPTIONS:		
OPEN ISSUES:	Find out what happens for each alternate step (app crashes on login, User forgets login information).	
CORRESPONDING FORMS AND REPORTS:	Screen Designs 1 - 3	

{Easy Exam}

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Date: November 7, 2014

USE CASE NAME:	Select Date and Time	
PRIMARY BUSINESS ACTOR:	User	
OTHER PARTICIPATING ACTORS:	OAE	
DESCRIPTION:	Once the correct course and exam have been identified, the database displays all available time slots for that exam. The user can scroll through available testing dates and times. Once the user selects a time slot, it will become temporarily unavailable pending further action by the user.	
PRE-CONDITION:	(1) The User must be an LSU student.	
TRIGGER:	The User selects a specific exam, which sends a request to the app.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The User selects a specific exam.	Step 2: The app sends a request to the OAE Database requesting a list of all available dates and times for that exam.
	Step 3: OAE Database returns the information, which the app stores locally.	Step 4: The app formats this information into a scrollable screen that allows the User to review available dates and times.
ALTERNATE COURSES:		
CONCLUSION:	The User receives the scrollable screen of available time slots.	
POST-CONDITION:	The User can now use the app to view available time slots and schedule his/her exam.	
BUSINESS RULES	Only LSU students that are logged in to the app and enrolled in the corresponding OAE Database course(s) can view the list of available time slots.	
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS		
ASSUMPTIONS:		
OPEN ISSUES:		
CORRESPONDING FORMS AND REPORTS:	Screen Designs 3 - 4	

{Easy Exam}

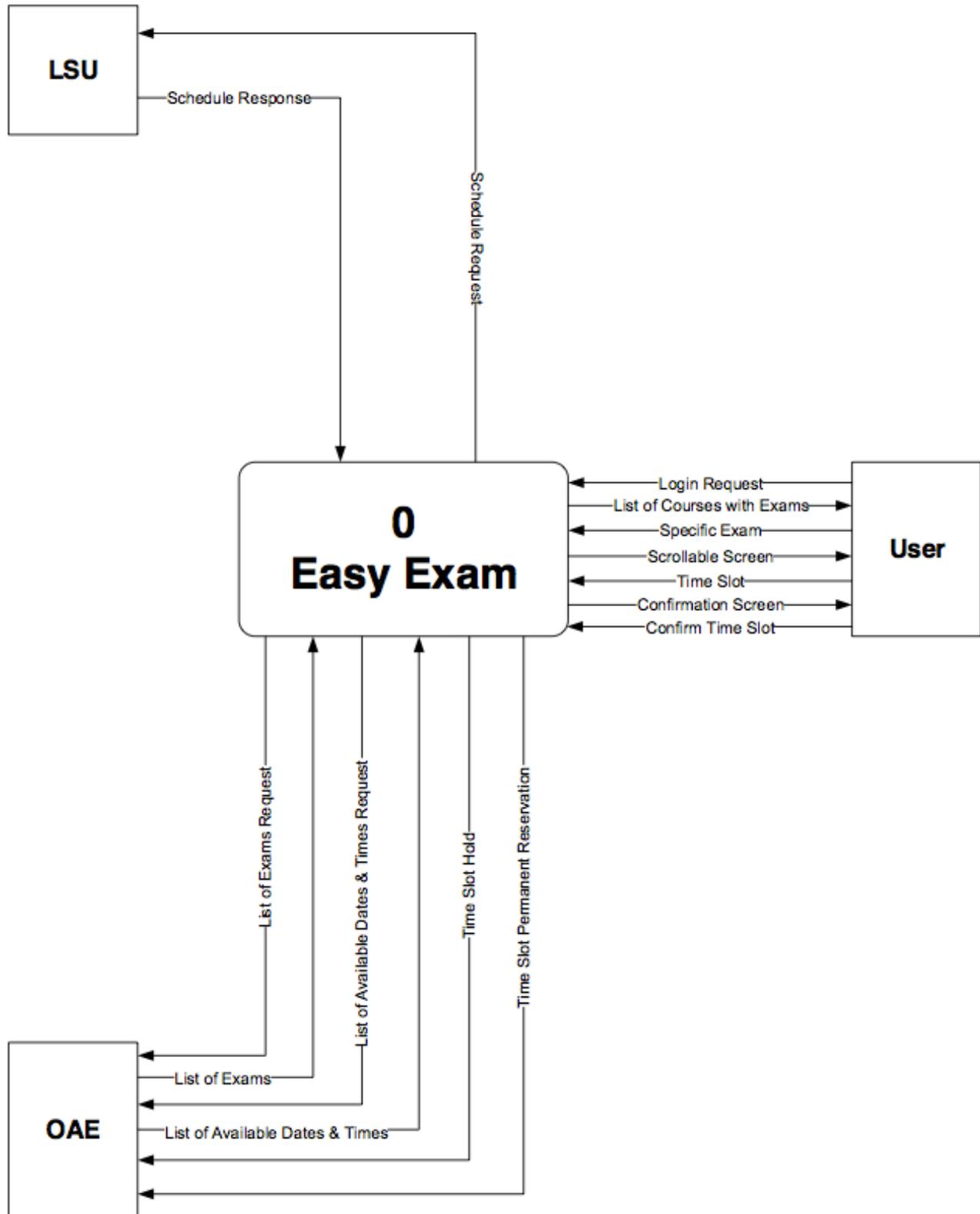
Author (s): Amanda Babin

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USE CASE NAME:	Confirm Time Slot	
PRIMARY BUSINESS ACTOR:	User	
OTHER PARTICIPATING ACTORS:	OAE	
DESCRIPTION:	Once the user has selected a specific date and time, the user can select confirm to schedule that time for him/her and remove it from the list of available times in the database, or select cancel and return to the selection screen or exit the system.	
PRE-CONDITION:	(1) The User must be an LSU student.	
TRIGGER:	The User selects a time slot, which sends a request to the app.	
TYPICAL COURSE OF EVENTS:	Actor Action	System Response
	Step 1: The User selects a time slot.	Step 2: The app sends a hold to the OAE Database that reserves that time slot for the User.
		Step 3: The app sends a confirmation screen to the User.
	Step 4: The User selects confirm.	Step 5: The app sends a time slot confirmation that permanently reserves that time slot for that exam for that User.
ALTERNATE COURSES:	Step 4A: The User selects cancel, which sends a cancel request to the app.	
	Step 5A: The app sends a release to the OAE Database, which removes the hold on that time slot and makes it available to other Users.	
CONCLUSION:	OAE Database receives the time slot permanent reservation.	
POST-CONDITION:	The User's exam has successfully been scheduled and time slot reserved.	
BUSINESS RULES	Only LSU students that are logged in to the app and enrolled in the corresponding OAE Database course(s) can view the list of available time slots and schedule an exam.	
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS		
ASSUMPTIONS:		
OPEN ISSUES:		
CORRESPONDING FORMS AND REPORTS:	Screen Designs 4 - 5	

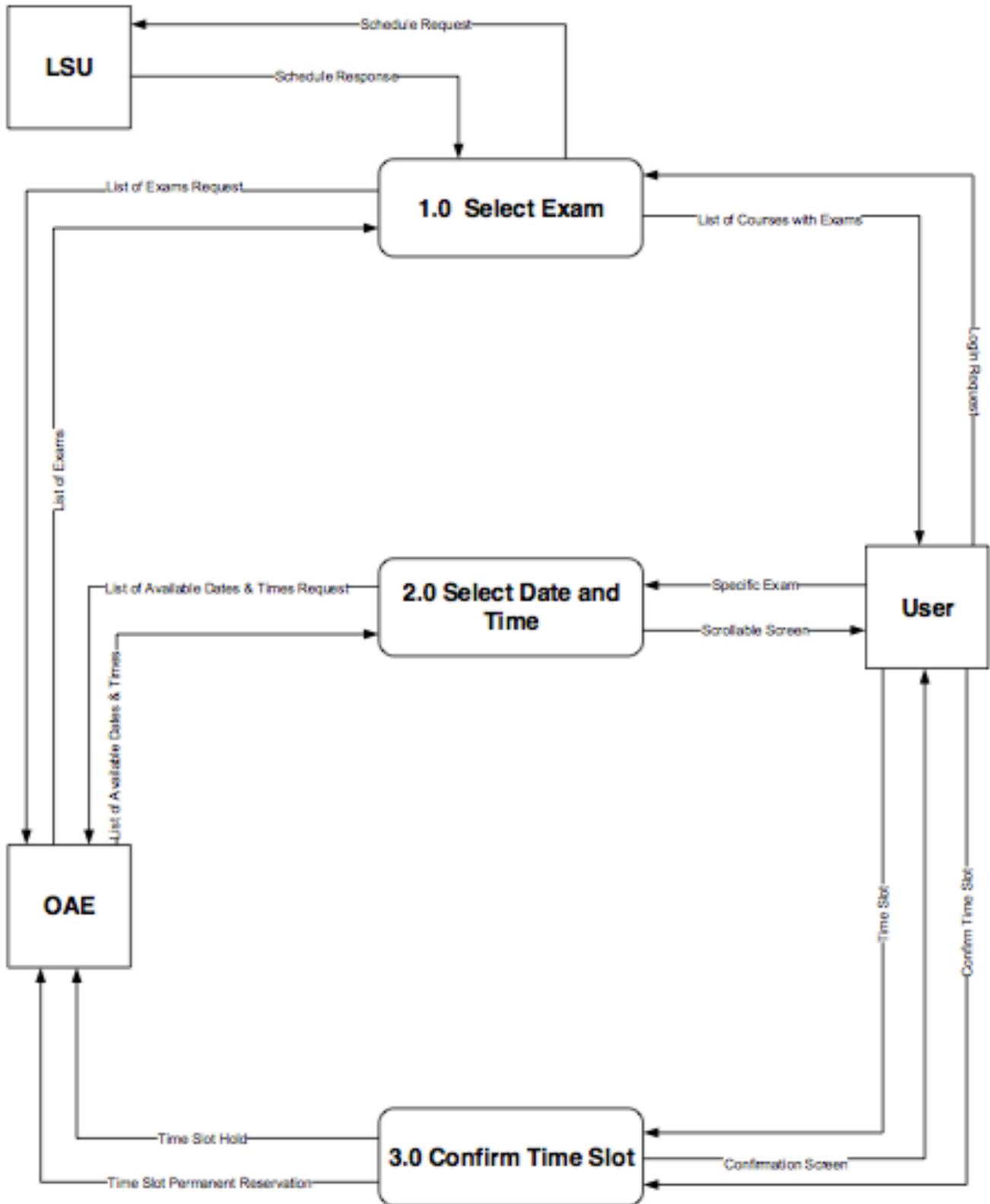
DATA FLOW DIAGRAMS

CONTEXT LEVEL DIAGRAM



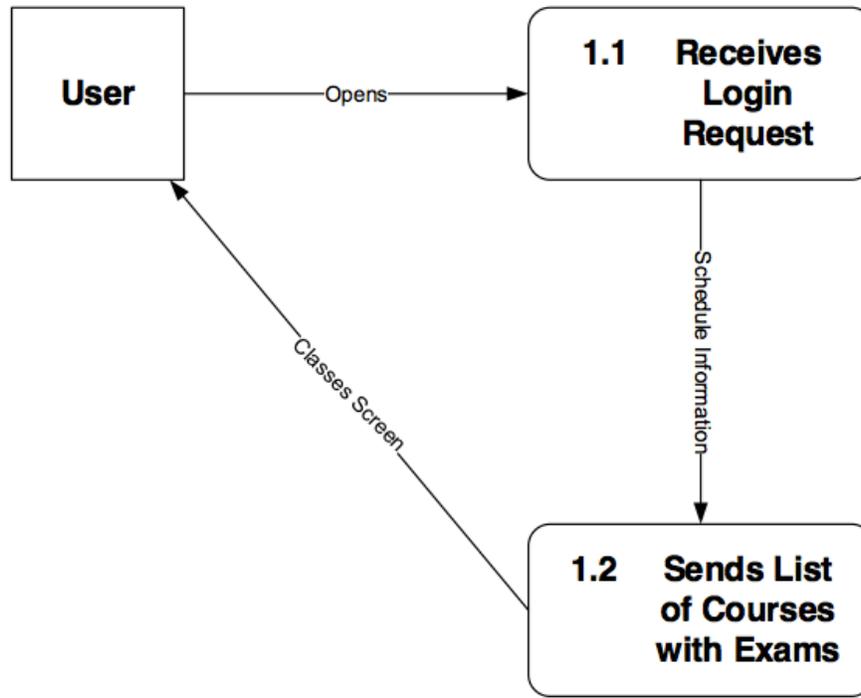
DATA FLOW DIAGRAMS

LEVEL-0 DFD

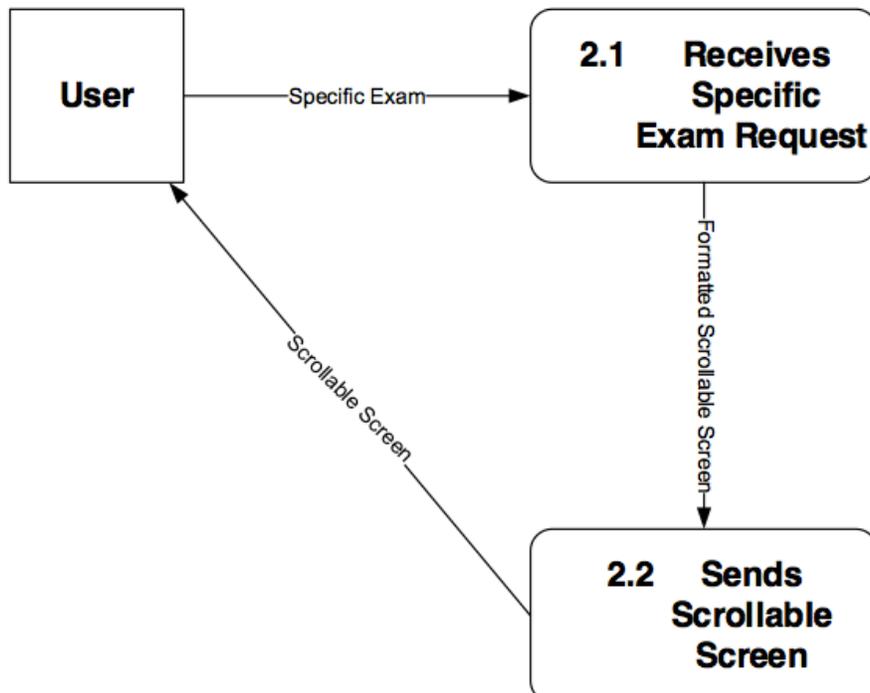


DATA FLOW DIAGRAMS

LEVEL-1 DFD : SELECT EXAM



LEVEL-1 DFD : SELECT DATE & TIME



DATA FLOW DIAGRAMS

LEVEL-1 DFD : CONFIRM TIME SLOT

