Rose-Hulman Institute of Technology

University of Wisconsin–Madison | Department of Computer Sciences
Human-Computer Interaction Laboratory

Milestone 3

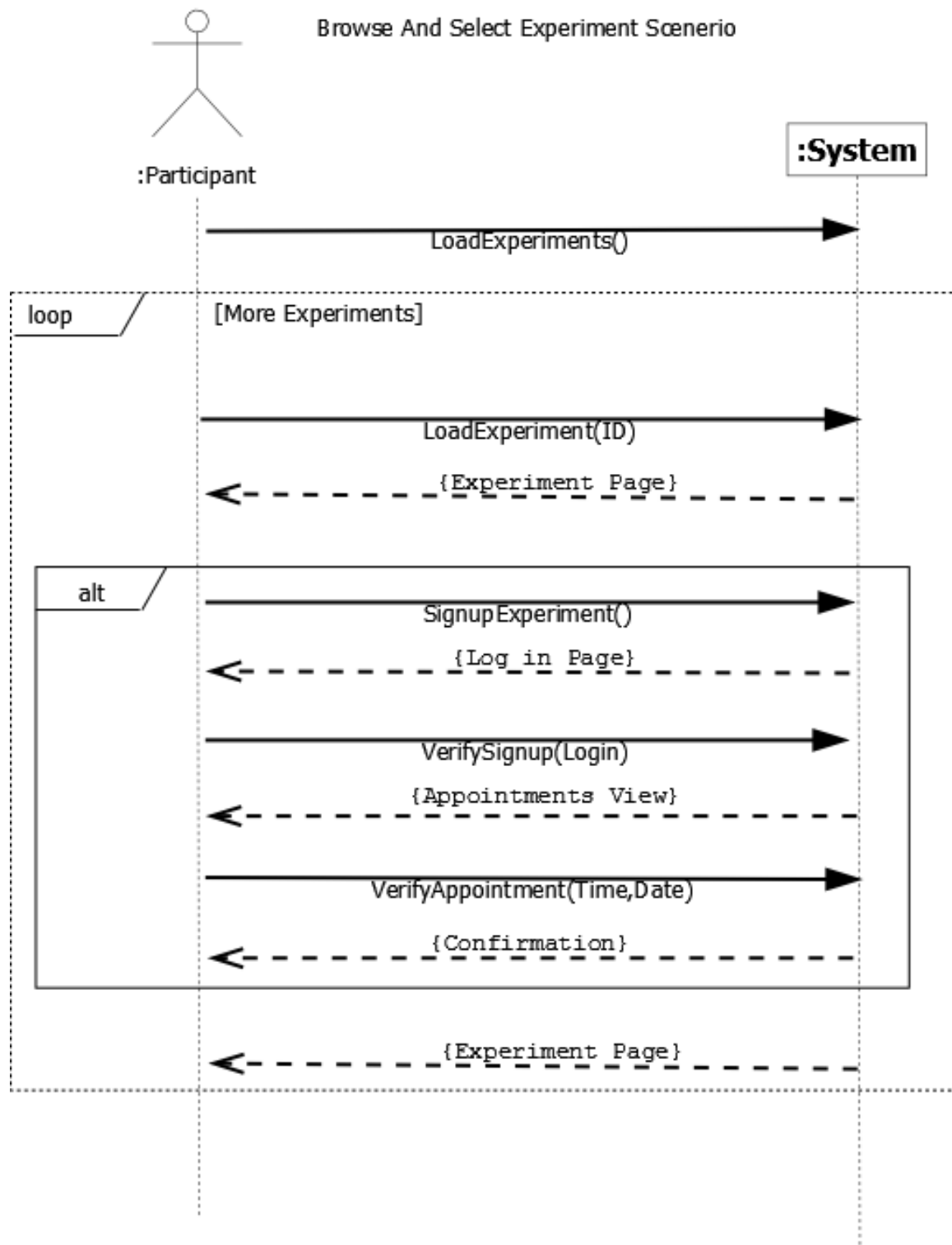Trey Cahill   Katie Greenwald   Samad Jawaid   Kevin Risden
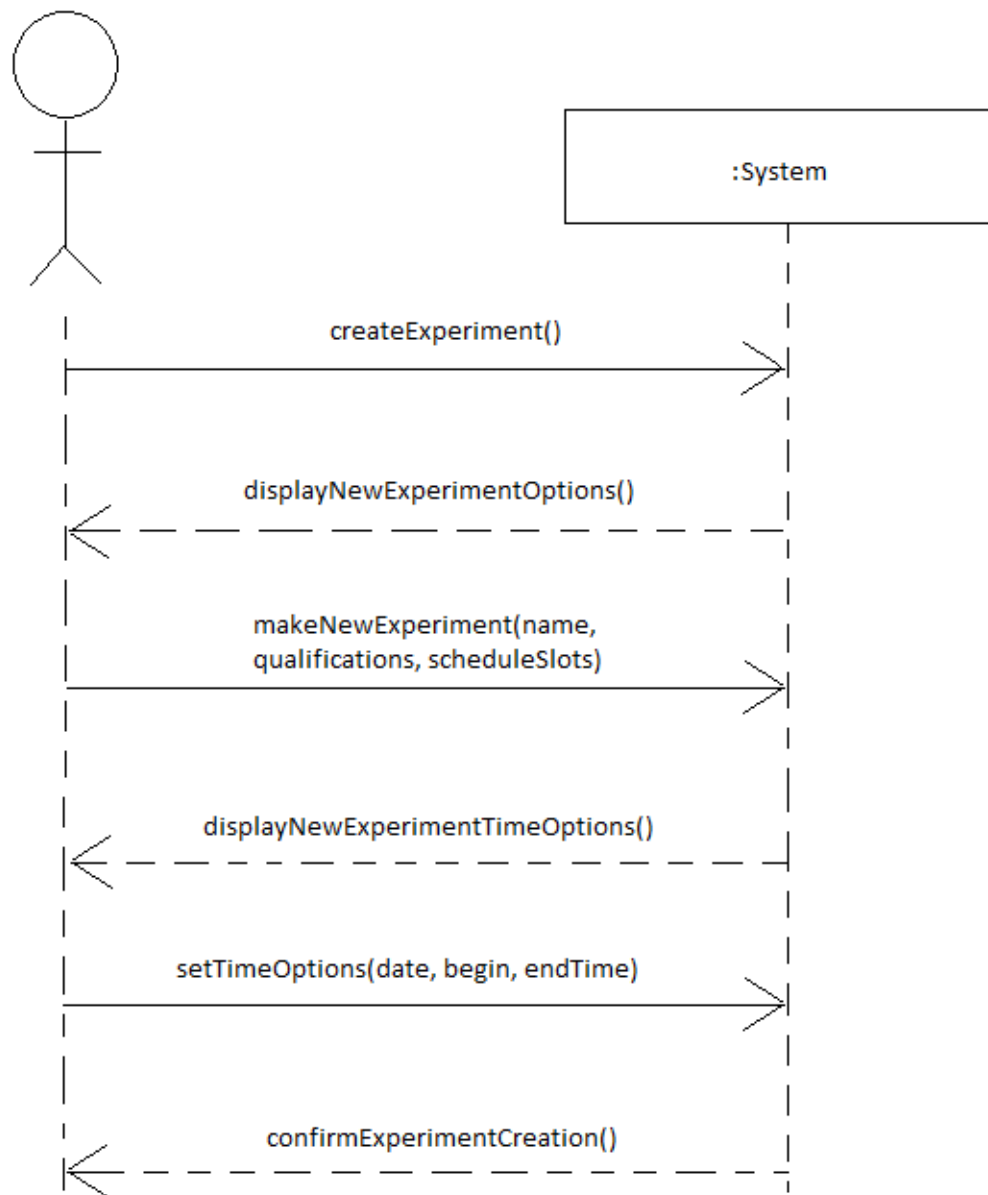
January 10, 2012

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1 System Sequence Diagrams

1.1 Browse and Select Experiment

Browse And Select Experiment Scenerio

:Participant

:System

LoadExperiments()

loop [More Experiments]

LoadExperiment(ID)

{Experiment Page}

alt

SignupExperiment()

{Log_in Page}

VerifySignup(Login)

{Appointments View}

VerifyAppointment(Time,Date)

{Confirmation}

{Experiment Page}

1.2 Create Experiment

createExperiment()

displayNewExperimentOptions()

makeNewExperiment(name, qualifications, scheduleSlots)

displayNewExperimentTimeOptions()

setTimeOptions(date, begin, endTime)

confirmExperimentCreation()

:System

1.3 Modify Experiment

2 Operations Contracts

This section provides operation contracts for vital operations.

2.1 CreateExperiment

Operation:	CreateExperiment()
Cross References:	Uses Cases: Add Experiment
Preconditions	User is an Administrator and/or a Researcher and has authenticated
Postconditions:	Experiment object will have been created, or an error message will have been displayed

2.2 ModifyExperiment

Operation:	ModifyExperiment(ID)
Cross References:	Uses Cases: Modify Experiment
Preconditions	User is an Administrator and/or a Researcher and has authenticated
Postconditions:	The experiment object will have its fields modified, will have been deleted, or an error message will ha

2.3 LoadExperiments

Operation:	LoadExperiments()
Cross References:	Uses Cases: Select Experiment
Preconditions	The participant has loaded the web page.
Postconditions:	Experiments collection was created (instance creation)

2.4 LoadExperiment

Operation:	LoadExperiment(ID)
Cross References:	Uses Cases: Select Experiment
Preconditions	The participant as clicked on an experiment.
Postconditions:	Experiment was created (instance creation)
	Experiment attributes was loaded into the web page

2.5 Sign Up Experiment

| Operation:	SignupExperiment()
Cross References:	Uses Cases: Sign up for Experiment
Preconditions	The participant has clicked on an experiment to sign up for
Postconditions:	LogIn was created (instance creation)
	LogIn.logged became loggedIn (attribute modification)

2.6 Verify Sign up

| Operation:	VerifySignup(Login)
Cross References:	Uses Cases: Sign up for Experiment
Preconditions	The participant has logged into or created an account
Postconditions:	this.hasConflict is set to false (attribute modification)

2.7 Verify Appointment

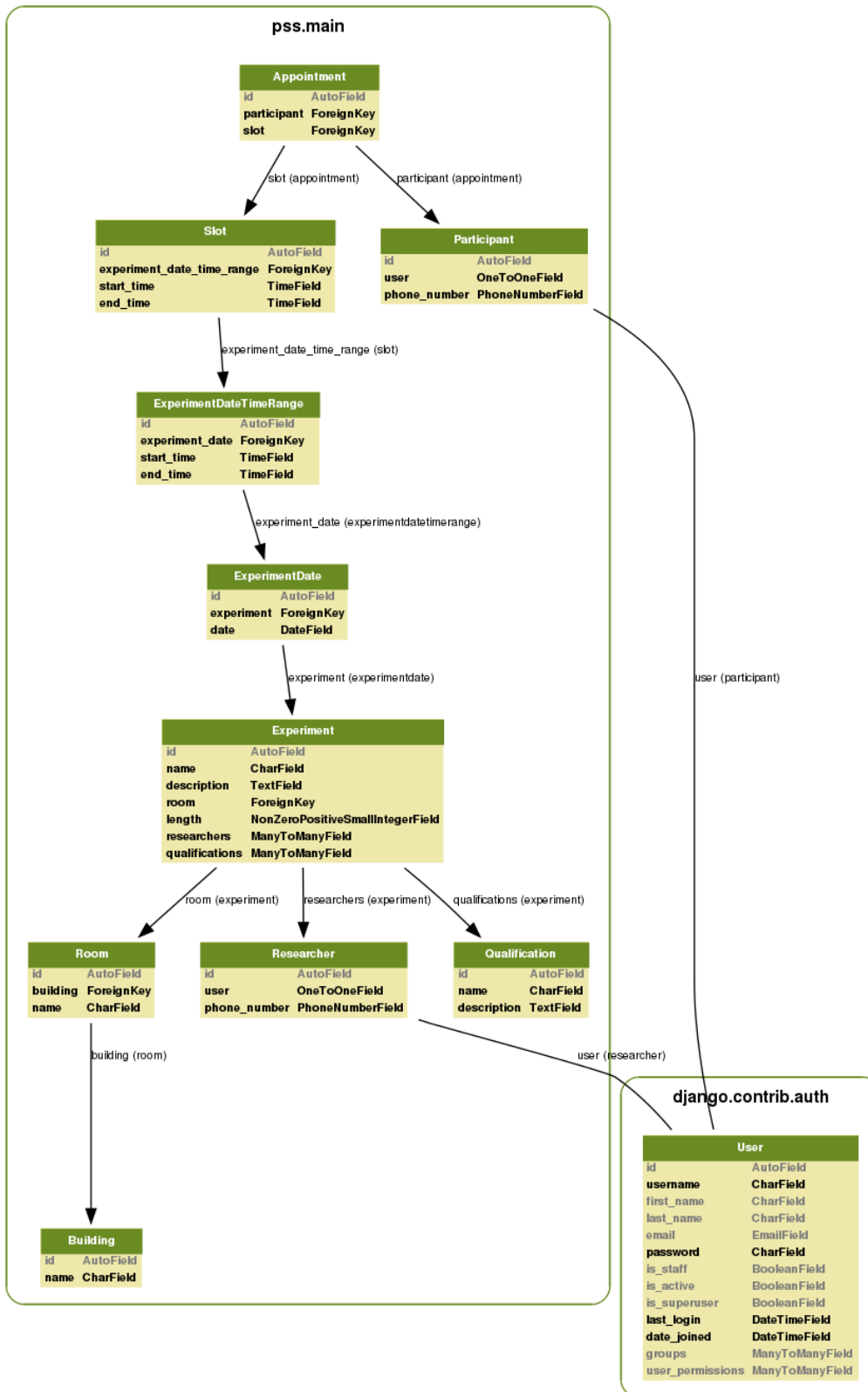| Operation:	VerifyAppointment(Time,Date)
Cross References:	Uses Cases: Sign up for Experiment
Preconditions	The participant has selected a time and date slot.
Postconditions:	experiment.slots has been modified (attribute modification)
	Database is updated

3 Interaction Diagrams

3.1 Sign Up For Experiment
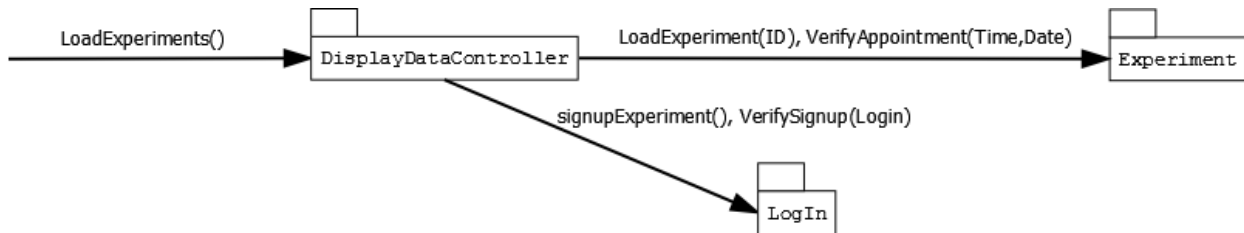
4 Package Diagram
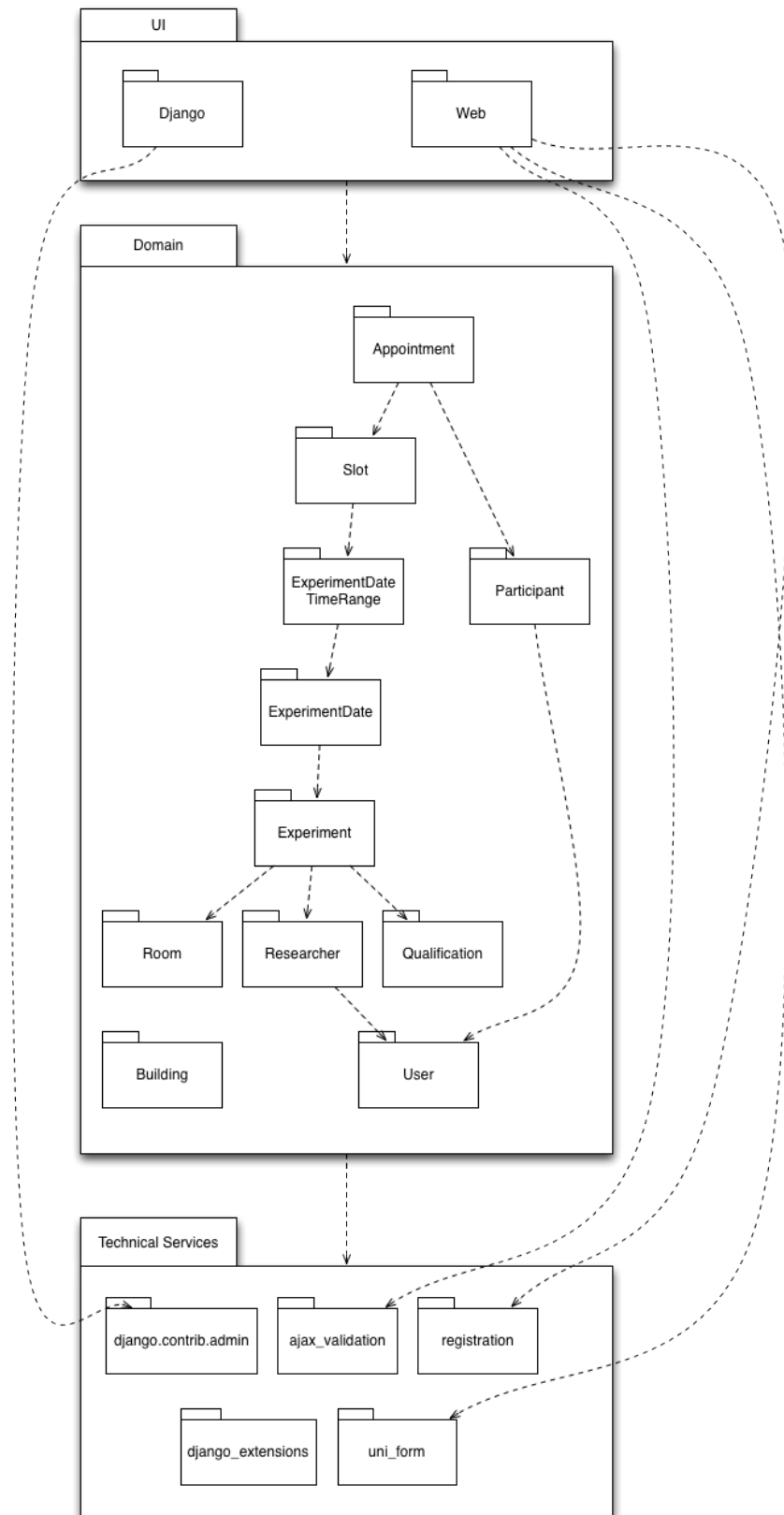
5 Class Diagram

6 References

7 Appendix