Rose-Hulman Institute of Technology

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

Milestone 2

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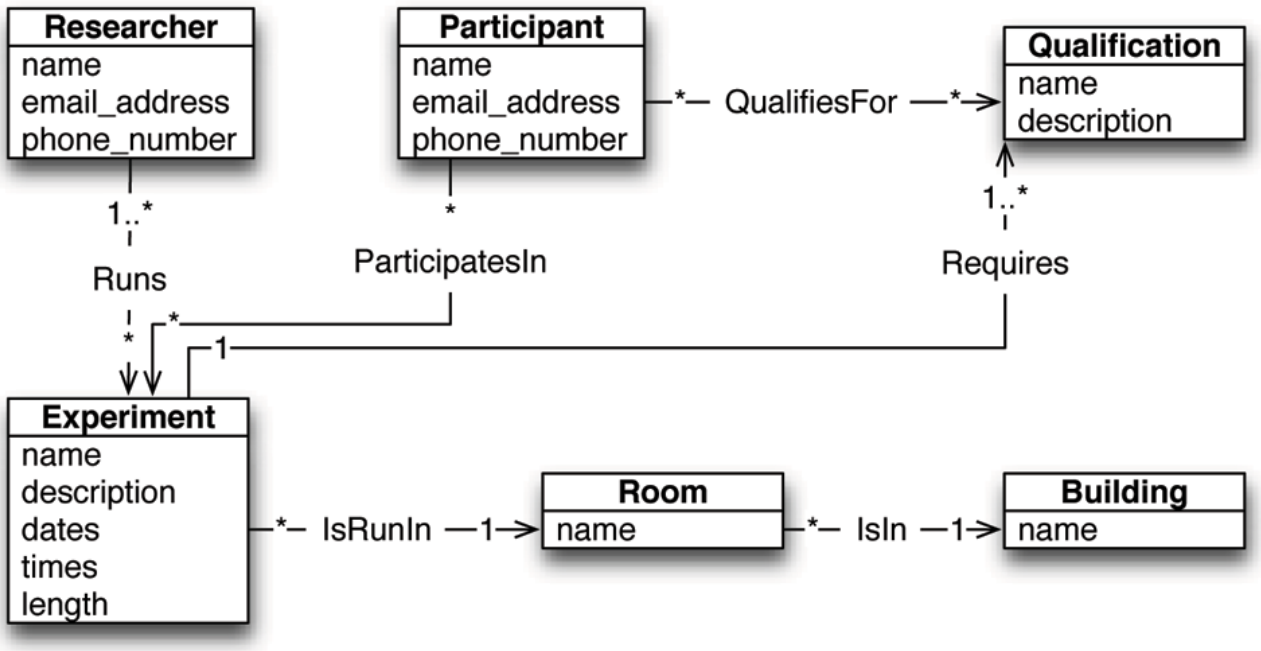
1 Introduction

The Human-Computer Interaction Lab at the University of Wisconsin-Madison wants a web-based system to better manage the scheduling of participants for their studies. These studies range from one-on-one experiments to group interactions, and many of them involve the robot used by the lab. Currently, each researcher arranges studies independently via email and is responsible for scheduling rooms, avoiding conflicts, and notifying participants of changes; unifying this information onto one system simplifies all of these tasks. To the client, the most important benefit of a unified system is the ability for participants to easily browse all available experiments, which is not possible over email. However, a variety of other functionality should be integrated into this utility to take advantage of the unity of information; most notable is recognizing room conflicts when scheduling studies, since the lab has only one robot and it cannot be moved.[1]

Project information will be documented as follows: Milestone 1 provides an overview of the project, from client background to key features and requirements. Milestone 2 covers the behaviour of the system, including use cases and data flow diagrams. Milestone 3 details constraints, back-end requirements, and elaborates upon the user interface. Testing and maintenance information can be found in Milestone 4. Milestone 5 will include usability data and interface re-design related to such data.

2 Domain Model



The central entity in the Participant Scheduling System is the **Experiment**. Each **Experiment** has a name, description, length (in minutes), and dates and times it is run. Furthermore, each **Experiment** is run in a **Room**, which has a name. Each **Room** is in a **Building**, which also has a name.

For every **Experiment**, at least one **Researcher** runs it. A **Researcher** has a name, email address, and phone number. Any number of **Participants** participate in an **Experiment**. Like a **Researcher**, a **Participant** has a name, email address, and phone number.

Every **Experiment** requires at least one **Qualification**. A **Qualification** has a name and description. A **Participant** qualifies for a **Qualification**.

3 Who Did What

Who	Section / Part Completed	Task / Comments	Effort
Trey	Document	Sketch Out Domain Model and Create Dia Diagram	1 hour
Katie	Document	Review Document	.1 hours
Samad	Document	Sketch Out Domain Model, Review Document, Create OmniGraffle Diagram, and Write Description	1 hour
Kevin	Document	Create and Review Document	.5 hours

4 References

[1] University of Wisconsin-Madison. Human-Computer Interaction Laboratory, 2010.

5 Appendix

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