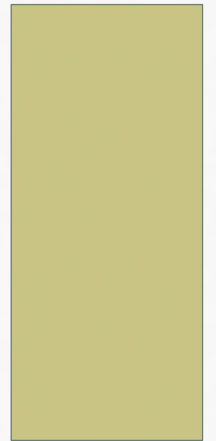


# FINAL PROJECT PRESENTATION

TO BE CONTINUED



# GROUP INFO

- David Walker
  - Nick Witmer
  - Jenia Rousseva
- 
- Eastern Washington University
  - CSCD350
  - Fall Quarter 2015

# PROJECT

- Trivia Maze

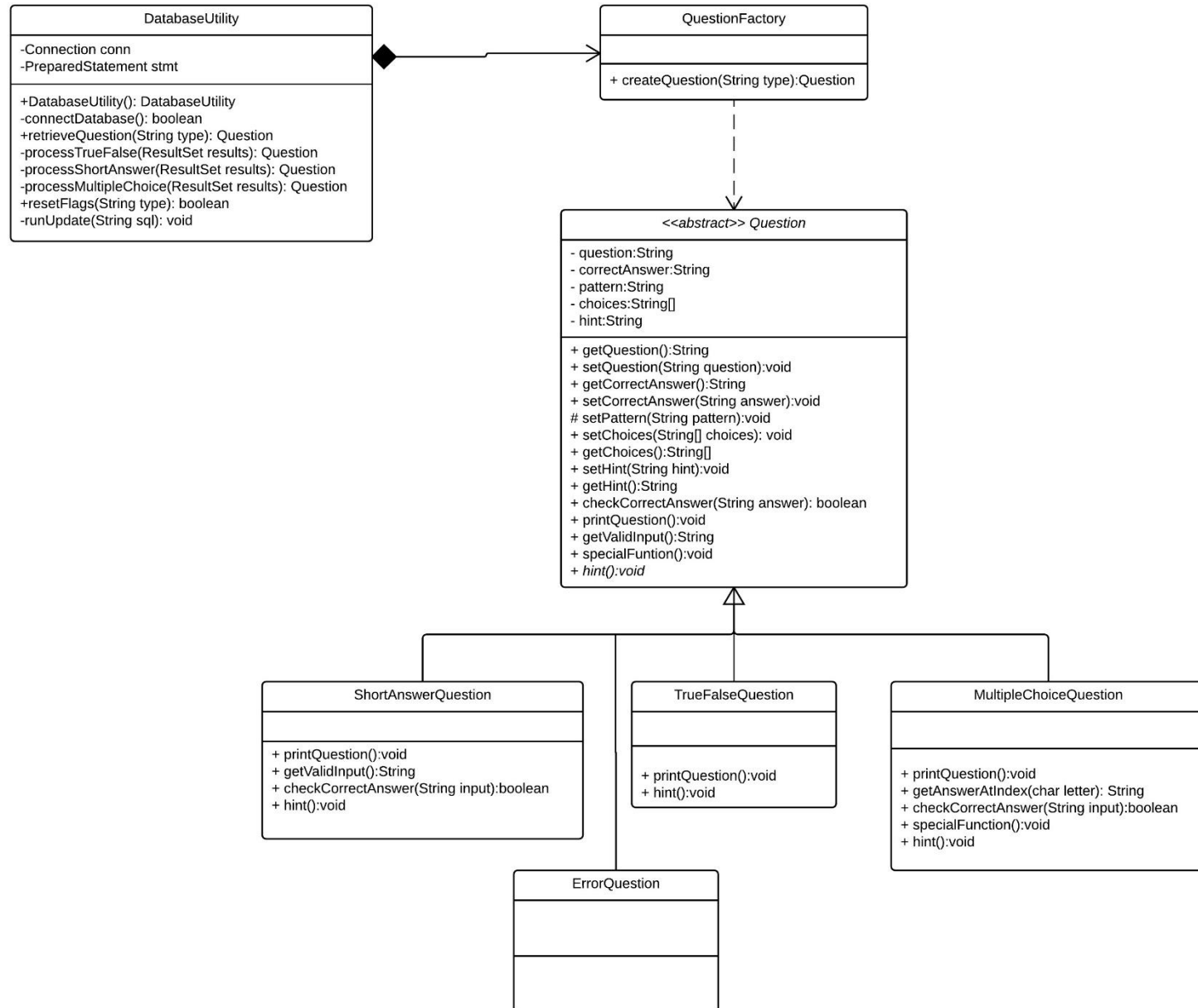
## Questions Database Schema

TrueFalse		
PK	question_id	int
	question	longtext
	answer	varchar(1)
	answered	int

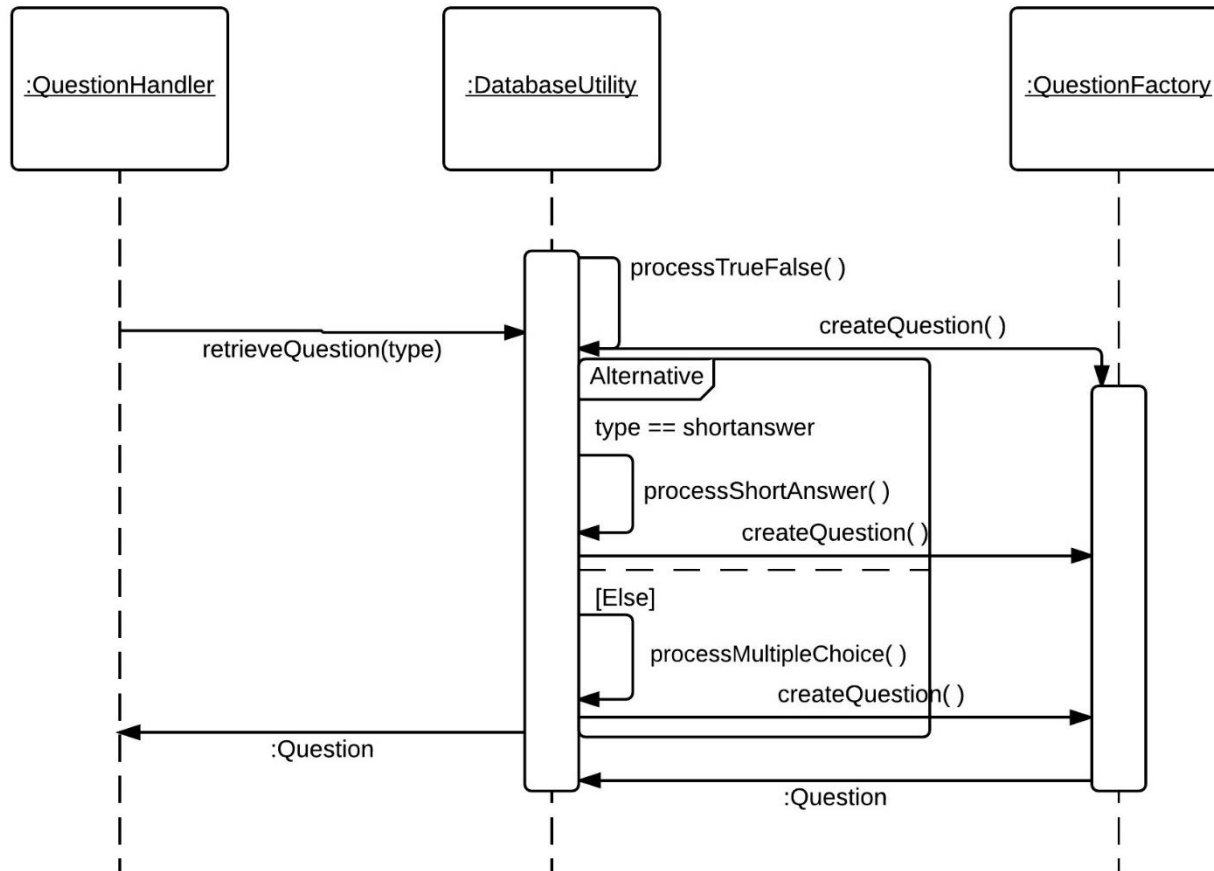
ShortAnswer		
PK	question_id	int
	question	longtext
	answer	longtext
	keywords	longtext
	answered	int

MultipleChoice		
PK	question_id	int
	question	longtext
	correct_answer	varchar
	option1	varchar
	option2	varchar
	option3	varchar
	option4	varchar
	answered	int

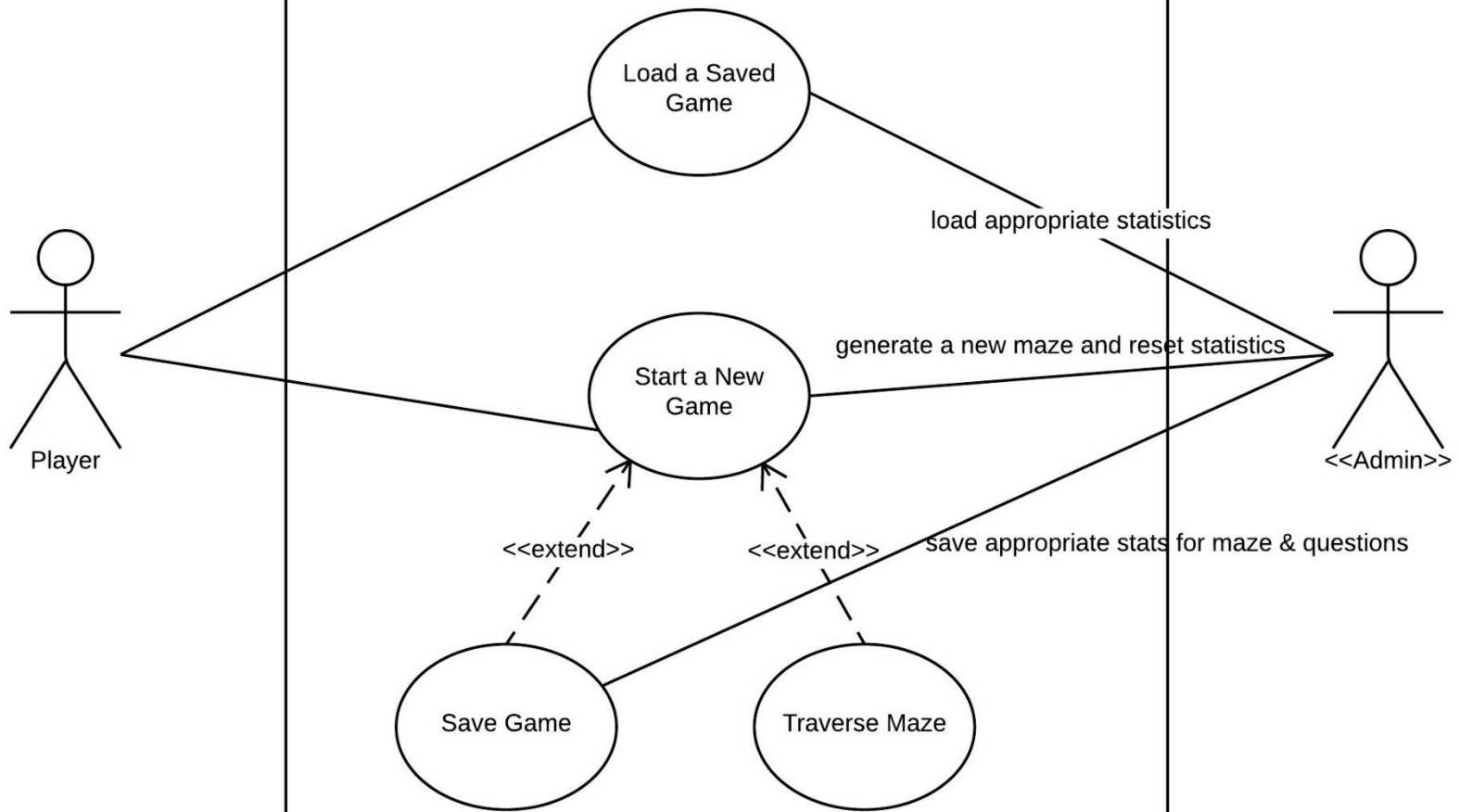
# QUESTION HIERARCHY AND RETRIEVAL



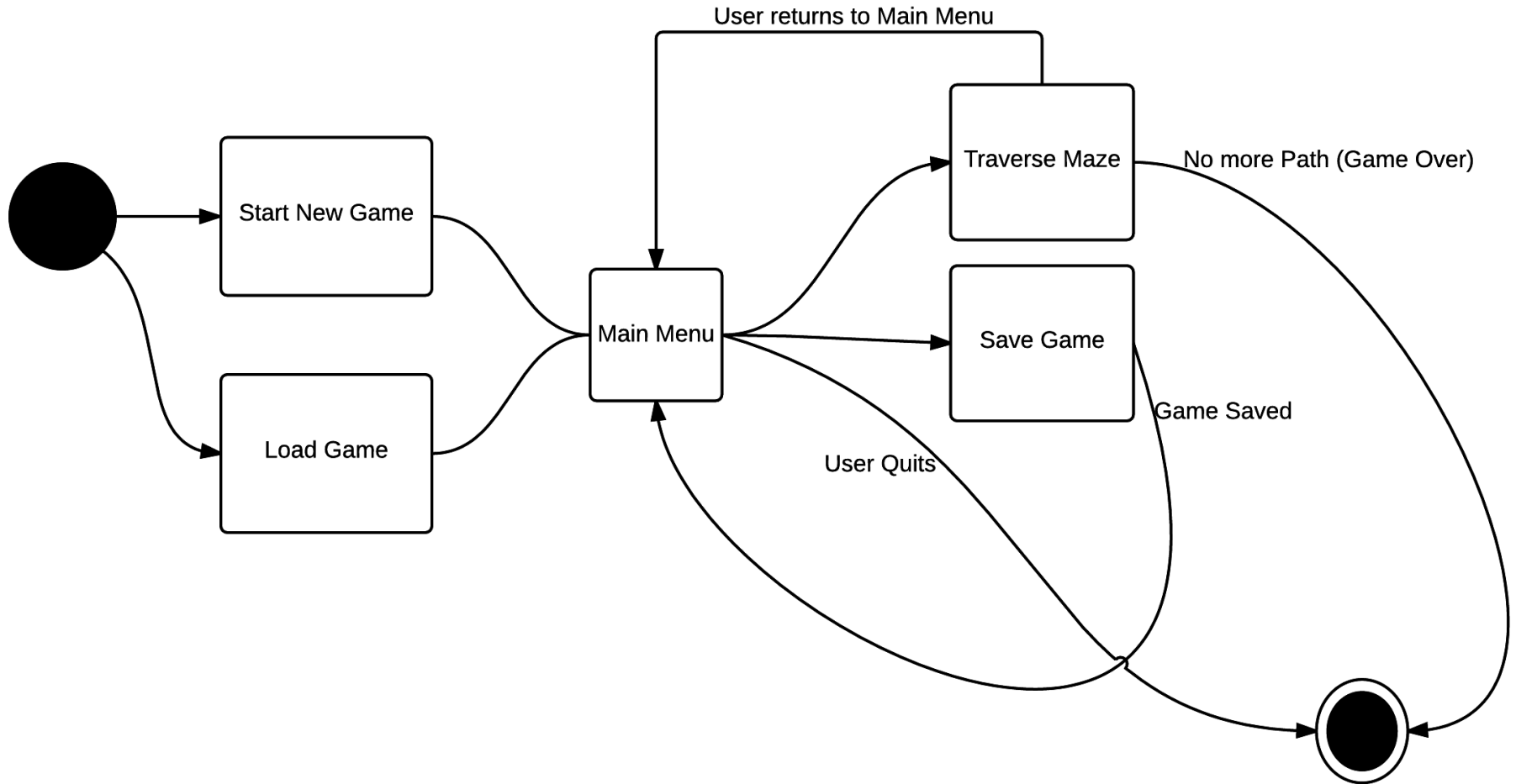
# QUESTION RETRIEVAL SEQUENCE



Use Case Diagram for Trivia Maze Game



# GAME STATE





# NULL OBJECT PATTERN

```
public class ErrorQuestion extends Question
{
    /*
     * Initializes a new question with the default values.
     * Calls superclass constructor and set the error to true
     */
    public ErrorQuestion()
    {
        super(null, null);
        this.setError(true);
    }

    //not used because the errorquestion has no other data in it and it wouldn't have a hint
    @Override
    public void hint()
    {
        // TODO Auto-generated method stub
    }
}
} //end ErrorQuestion
```

# FACTORY PATTERN

```
public class QuestionFactory
{
    * DVC for a QuestionFactory[]

    public QuestionFactory() {}

    * Creates one of the three question types based in the []

    public Question createQuestion(String type)
    {
        Question question = null;

        if (type.equals("shortanswer"))
        {
            question = new ShortAnswerQuestion();
        }//end if
        else if (type.equals("multiplechoice"))
        {
            question = new MultipleChoiceQuestion();
        }//end else if
        else if (type.equals("truefalse"))
        {
            question = new TrueFalseQuestion();
        }//end else if
        else if (type.equals("error"))
        {
            question = new ErrorQuestion();
        }
        return question;
    }//end createQuestion
} //end QuestionFactory
```