Requirements List:

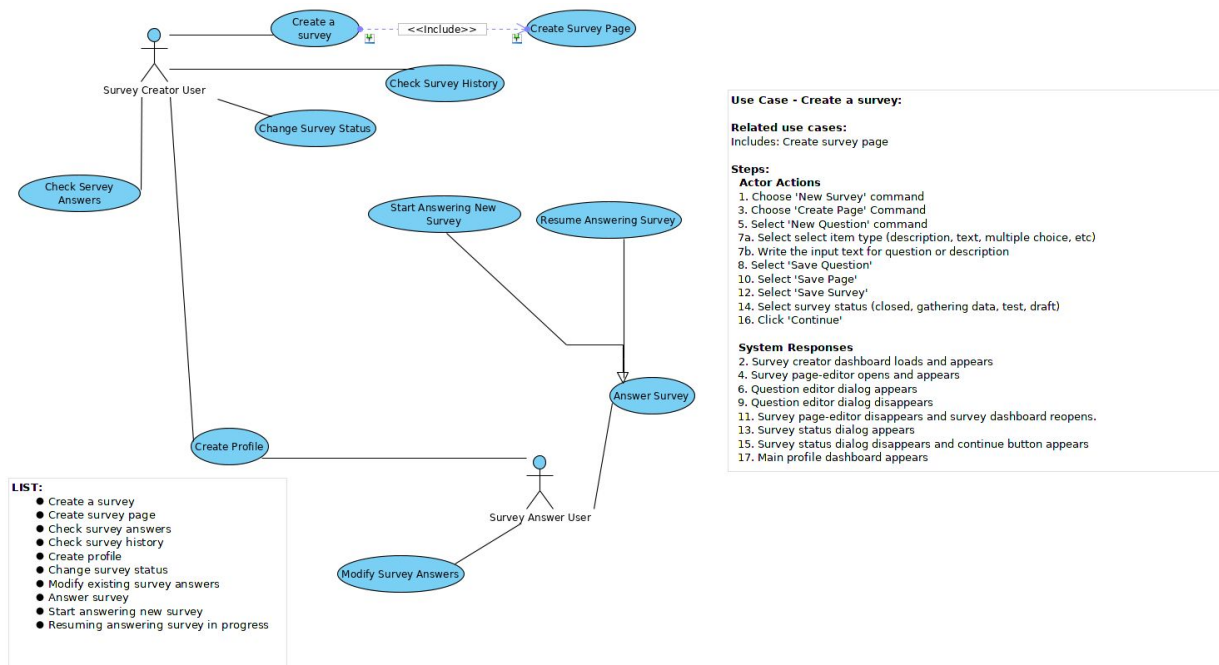**Functional Requirements:**
- The system shall allow users to sign up using an email address.
- The system shall require all users to complete a profile with first name, last name, and address.
- The survey creation system shall allow survey creation users to design surveys with any desired questions using custom inputs.
- The system shall allow a survey creator to test the survey, which shall discard all the incoming data.
- The system shall allow a survey creation user to publish the survey for data gathering, where all data is stored.
- The system shall allow the survey creation user to close the survey, no longer permitting data input.
- The system shall allow the survey owning user to access all data gathered from a chosen survey.
- The survey answering system shall allow the participating user to answer in the following formats: multiple choice (one or more answers), text (with a maximum character limit), an integer, and a boolean.
- The system shall allow the survey creator to limit the amount of characters for an acceptable text answer input.
- The survey system shall save the user answers after every answer submission.
- The survey creation system shall allow the creator to set a time and date limit for the survey to be completed.
- The survey system shall provide the user with a token that allows the survey to save progress and reopen the saved survey before the time limit set by the survey creator.
- The system shall allow the survey creator to select the next pages in the survey depending on user answers.
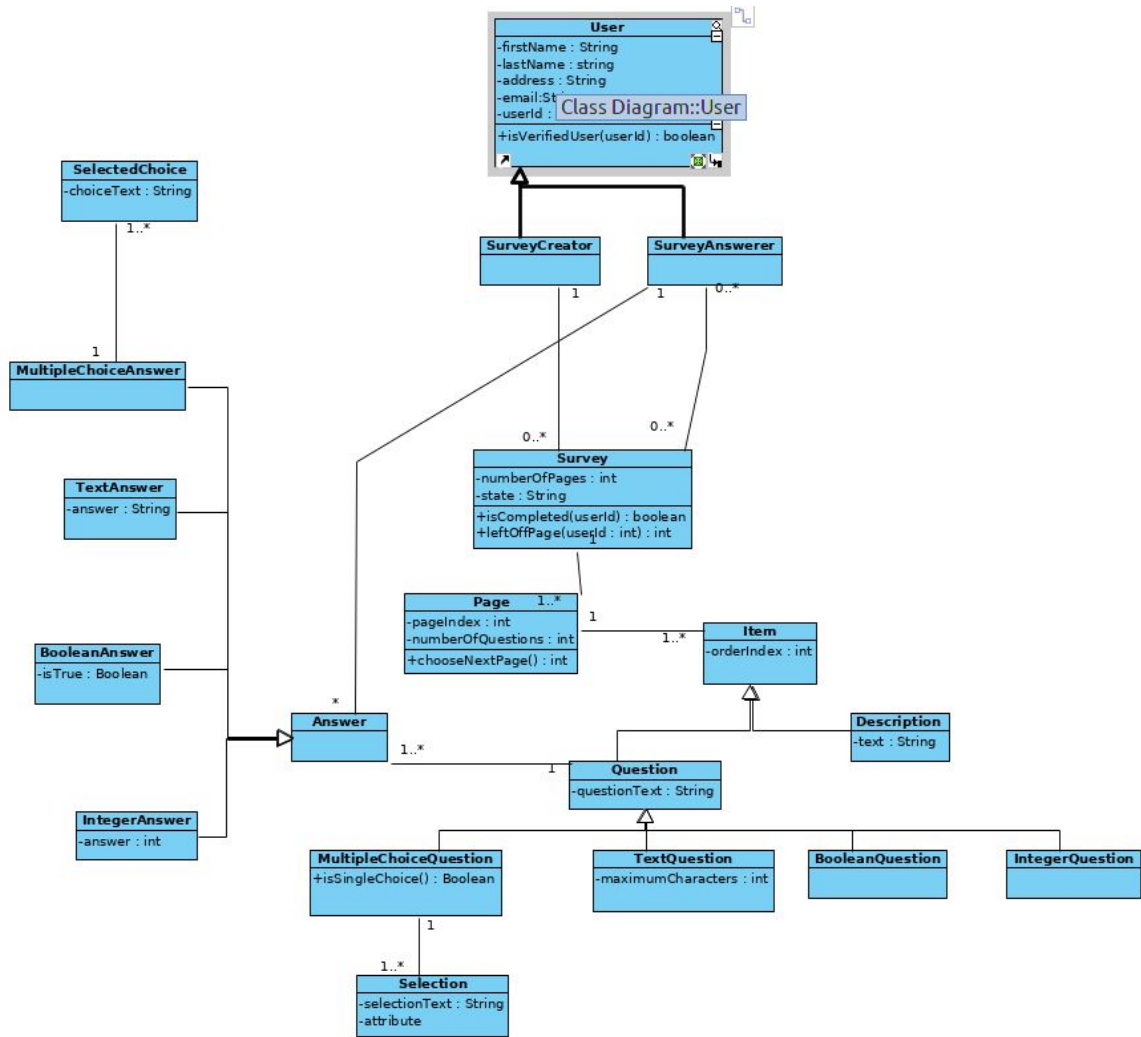
Non-functional Requirements:
- The system must contain a master server from which all survey data is pushed and pulled from.
- The system must contain three servers in every continent.
- The system must copy every created survey data into three servers, one in each continent.
- The system of servers shall allow data access from backup servers if and only if the master server is down.
- The system shall send the master survey data to backups as soon as the survey is created.
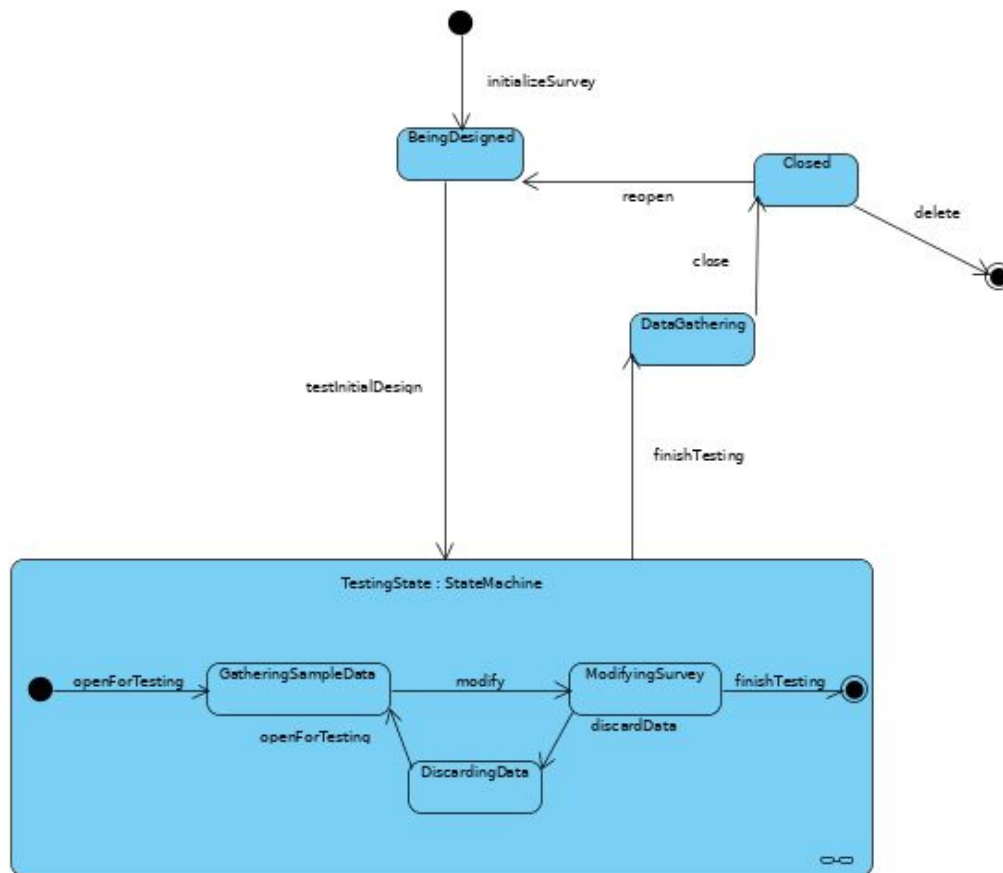
Use Case Diagram, List of Use Cases, Use Case Description for Create Survey:

LIST:
- Create a survey
- Create survey page
- Check survey answers
- Check survey history
- Create profile
- Change survey status
- Modify existing survey answers
- Answer survey
- Start answering new survey
- Resuming answering survey in progress

Use Case - Create a survey:

Related use cases:
Includes: Create survey page

Steps:
Actor Actions
1. Choose 'New Survey' command
3. Choose 'Create Page' Command
5. Select 'New Question' command
7a. Select select item type (description, text, multiple choice, etc)
7b. Write the input text for question or description
8. Select 'Save Question'
10. Select 'Save Page'
12. Select 'Save Survey'
14. Select survey status (closed, gathering data, test, draft)
16. Click 'Continue'

System Responses
2. Survey creator dashboard loads and appears
4. Survey page-editor opens and appears
6. Question editor dialog appears
9. Question editor dialog disappears
11. Survey page-editor disappears and survey dashboard reopens.
13. Survey status dialog appears
15. Survey status dialog disappears and continue button appears
17. Main profile dashboard appears

Class Diagram, attributes, 5 operations:

State Diagram:

Sequence Diagram: