Assignment Workbook

Fall 2017

Revision History

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| --- | --- | --- | --- |
| **Date** | **Issue** | **Description** | **Author** |
| Tuesday, November 21, 2017 | Entity Classes | Group met during lab hours to complete list of all entity classes. | All members |
| Thursday, November 23, 2017 | Attribute Descriptions | Completed attribute descriptions. | Riana McBride |
| Friday, December 1, 2017 | Class Diagram | Completed class diagram | Joshua Evans |
| Monday, December 4, 2017 | FEAT-UC | Completed matrix | Peter Voege |
| Monday, December 4, 2017 | Entity Descriptions | Completed descriptions for assigned entity classes | Rachel Megidish |
| Monday, December 4, 2017 | Entity Descriptions | Completed descriptions for assigned entities | Aaryn Biro |
| Monday, December 4, 2017 | UC-Entity Class | Completed second matrix | Kevin Freeman |

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# Potential Entity Classes

|  |  |
| --- | --- |
| Class name | Brief Description |
| Messages | This entity class will store information as messages. The messages are exchanged between the physiotherapist and the user. Their content can be text, photos, forms or videos. |
| Rehabilitation Plan | This class will store information as rehabilitation plans. Each user will have a plan, created by the physiotherapist. Each plan will consist of a unique identification code, name, description, author name, goal, list of exercises, timeframe and list of assessment tests. |
| Assessment Test | Assessment tests will be stored as information in the system database. Each user will have assessment tests provided by the physiotherapist. Each test will consist of a name, description, key, author name, list of questions, and attachments. |
| Appointments | This entity class stores information about in-person appointments. The user can book appointments with a physiotherapist. Each appointment stored will have a specified client and physiotherapist, as well as the date, time, and ID number. |
| User Progress | User progress will be stored as information in the database. The user will fill out their progress in the form of text, and level of pain. |
| Assessment Tools | The available assessment tools will also be an entity class, consisting of multiple choice questions, rating questions, true/false questions and short answer questions. |
| User | A person using the system who is not the Admin. The superclass of Client and Physio, contains all attributes that are shared between Client and Physio. |
| Physio | The physiotherapist working at Marcotte Physiotherapy. This person designs the treatment plan, sends out communications to their clients on the Self Start app, and monitors the progress of their clients. |
| Admin | The person who controls the set up and access to the application. Admin can add exercises to the exercise list, see and update user information, as well as control access privileges and subscriptions. |
| Client | The customer of Marcotte Physiotherapy. Person who subscribes to the service and receives the daily exercises and communications from the Physio. |
| Assessment Rubric | The rubric for the assessment will contain a list of categories to be completed. This will be in composition with the assessment tools. |
| Exercises | A physical action or set of actions to complete that helps to heal the patients during the physiotherapy process. |

# Classes Attributes

1. ***User* class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| First Name | String | String of chars for the User’s first name. |
| Last Name | String | String of chars for the User’s last name. |
| Gender | String | Can be either “Female” or “Male” or “Neither”. |
| DoB | String | The date that the user is born, formatted as “DD-MM-YYYY”. |
| City | String | The City that the User lives in. |
| Region | String | The Region that the user ilves in. |
| Postal Code | String | The postal code of the User, formatted as “A1B 2C3”. |
| Street | String | The street and house number of the User. |
| TelNo | String | The telephone number of the user, formatted as “999-999-9999”. |
| isActive | Bool | Whether the User is active in the program or not. |
| paymentCredits | Int | The number of credits the user has towards appointments. |

1. ***Client* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| PhysioHistory | String | The history of the physio of the Client. |
| PhysioID | String | The ID of the Physiotherapist for the Client. |
| InjuryInfo | String | A description of the Client’s injury. |
| healthCardNo | String | A number representing the Client’s health card number. |
| maritalStatus | String | Whether or not the Client is married. Can be “Single”, “Married”, “Divorced”, or “Widowed”. |
| Occupation | String | The job of the Client. |

1. ***Physio* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| ClientList | List<String> | A list of the IDs of Clients that the Physiotherapist treats. |
| ClientHistory | String | The client history. |

1. ***Exercise* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| Rating(User, Value) | List<String, Int> | A list of User’s (their IDs) and their rating of the exercise, where the rating is a minimum of 1 and a maximum of 10. |
| ID | String | The unique ID for the exercise. |
| Name | String | The name of the exercise. |
| Description | String | A description of the exercise. |
| authorName | String | The name of the person who created the exercise. |
| Objectives | List<String> | What the exercise would like to achieve. |
| ActionSteps | List<String> | The steps to completing the exercise. |
| Frequency | Int | How often the exercise should be done. |
| Duration | Int | How long to do the exercise for. |
| TargetDate | String | The date to do the exercise. |
| MultimediaURL | String | The path for the exercise video and/or photo. |

1. ***Message* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| Photo | String | The path (URL) for the photo that is being sent. |
| Video | String | The path (URL) for the video that is being sent. |
| Content | String | The content of the message, aka body. |

1. ***Rehabilitation Plan* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| ID | String | The unique ID for the rehabilitation plan. |
| Name | String | The name for the plan. |
| Description | String | The description of the plan. |
| AuthorName | String | The first name and last name of the creator of the plan. |
| OverallGoal | String | What the plan hopes to achieve. |
| ExerciseList | List<String> | The list of names of exercises that are included within the plan. |
| TimeFrame | String | Da to do the exercises. |
| AssessmentTestList | List<String> | The list of names of the assessment tests that are included as a part of the plan. |

1. ***Assessment Test* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| formKey | String | The unique ID for the assessment test. |
| QuestionList | List<String> | A list of questions that will be asked in the test. |
| Name | String | The name of the test. |
| Description | String | A description of the test. |
| AuthorName | String | The first name and last name of the person who designed the test. |
| attachments | String | The URL of the attachment. |

1. ***Appointment* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| Time | String | The time that the appointment was booked for. |
| Date | String | The date that the appointment was booked for, formatted as “DD-MM-YYYY”. |
| Name | String | The name of the appointment (subject). |
| ID | String | The unique ID for the appointment. |
| Client | String | The ID of the Client that has booked the appointment. |
| Physio | String | The ID of the Physiotherapist that will attend to the client at this appointment. |

1. ***UserProgress* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| Level | Int | The level of progress that the Client has achieved. |
| ProgressText | String | The message the comes when a new level is achieved. |

1. ***AssessmentTools* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| multipleChoiceQuestions | List<String> | The list of multiple choice questions that can be put in an assessment test. |
| ratingQuestions | List<String> | The list of rating questions that can be put in an assessment test. |
| TFQuestions | List<String> | The list of true or false questions that can be put in an assessment test. |
| shortAnswerQuestions | List<String> | The list of short answer questions that can be put in an assessment test. |

1. ***AssessmentRubric* Class**

|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Brief Description |
| listOfCategories | List<String, Int> | The level of progress that the Client has achieved. |

# Entity Class Diagram

