Fall 2017

Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Issue** | **Description** | **Author** |
| 11/28/17 | 1.0 | Initial Revision | Andrew Black |
| 11/30/17 | 1.1 | Revision of Entity Classes | Andrew Black |
| 11/30/17 | 1.2 | Final Revision with Class Diagram | Andrew Black |
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# Potential Entity Classes

|  |  |
| --- | --- |
| Class name | Brief Description |
| User | The base user class of the Self Start system, of which the three specialized users inherit some information from. |
| Patient | An entity class which holds all the relevant information for the client account within Self Start. |
| Physiotherapist | An entity class which holds all the relevant information for the physiotherapist account within Self Start. |
| Administrator | An entity class which holds all the relevant information for the administrator account within Self Start. |
| Payment | A class which holds the patient’s payment information and history within it. |
| Appointment | An entity for the appointments scheduled between the patients and physiotherapists. |
| Treatment | An entity class which contains the patient’s current treatment progress as well as their past treatment details. |
| Exercise | An entity class which stores the information for a specific exercise and the associated information. |
| Assessment | An entity class for the differing tests which the client can perform to denote their treatment progression. |
| Rubric | The rubric entity class will be a container for the many assessment rubrics the user can fill out during their treatment. |
| RubricQuestion | Specific answerable questions pertaining to the rubrics of which they are assigned. |
| Plan | The general or custom rehabilitation plans that are contained within the Self Start system |
| DynamicForm | An entity class to contain all the differing dynamic forms on the site, which is maintained by the administrator. |
| DynamicFormQuestion | Specific answerable questions pertaining to the forms of which they are assigned. |

# Classes Attributes

1. ***User* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Username | String | General username field |
| Password | String | General password field |

1. ***Patient* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Username | String | Patients username |
| Password | String | Patient’s password stored using a safe hashing algorithm |
| Name | String | Identifies the user based off their name |
| Gender | Enum | Stores the preferred gender of the user (male, female, prefer not to say) |
| DOB | Date | The patients date of birth |
| Address | String | The patients current place of residence |
| Telephone Number | String | The preferred contact number for the patient |
| Health Card Number | String | The patient’s health card information |
| Marital Status | Enum | Stores the marital status of the patient (married, single, divorced, widowed, prefer not to say) |
| Occupation | String | What the patient does for a living |

1. ***Physiotherapist* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Username | String | The identification number specific to the physiotherapist |
| Password | String | Physiotherapist’s password stored using a safe hashing algorithm |
| Name | String | The physiotherapists name |
| Email | String | Physiotherapists email |
| Phone Number | String | Physiotherapists phone number |

1. ***Administrator* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Username | String | Administrator username |
| Password | String | Administrators’ password stored using a safe hashing algorithm |

1. ***Payment* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Credit Card Number | String | Patients credit card number |
| Expiry Date | String | Patients credit card expiry date |
| CVV | Int | Patients CVV number on the back of card |
| Payment Date | Date | The day the patient paid using their credit card |
| Amount | Float | The amount the patient paid |

1. ***Appointment* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Appointment Date | Date | The date of the appointment and time |
| Duration | String | The duration of the appointment |

1. ***Treatment* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Name | String | Name of the specific treatment |
| Date | Date | Date patient received treatment |
| Description | String | The specific description of the treatment |
| Classification | String | Classifying the patient’s specific ailments (i.e. shoulder, knee, etc.) |

1. ***Exercise* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Unique Identification Code | Int | The identifier for the specific exercise |
| Name | String | The name of the treatment plan |
| Description | String | A brief description of what the plan entails |
| Author Name | String | The name of the physiotherapist that created the plan |
| Objectives | String | Goals for the patient |
| Action Steps | String | Certain milestones the patients treatment |
| Location | String | Exercise’s specific location |
| Frequency & Duration | String | Specific reps and sets for the exercise |
| Target Date | Date | Specific date for completion of exercise |
| Multimedia URL | String | Specific URL for the video of the exercise being completed |

1. ***Assessment* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Unique Identification Code | Int | The identifier for the specific assessment |
| Name | String | The name of the assessment test |
| Description | String | Short description of the assessment test |
| Author Name | String | Name of the author |
| Assessment Tool | String | Description of assessment tools used |

1. ***Rubric* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Unique Identification Code | Int | The identifier for the specific rubric |
| Format | String | A description of the format the assessment the rubric is associated to |
| Rating | Int | Between one and ten based off how the user feels |

1. ***RubricQuestion* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Question | String | The specific question to the rubric it exists within. |
| Answer | String | The users answer to the rubric question |

1. ***Plan* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Unique Identification Code | Int | The identifier for the specific treatment plan |
| Name | String | The name of the treatment plan |
| Description | String | A brief description of what the plan entails |
| Author Name | String | The name of the physiotherapist that created the plan |
| Overall Rehabilitation Goal | String | A short description of the overall treatment goals |
| Timeframe | String | Certain progress dates for the patients treatment |

1. ***DynamicForm* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Name | String | Specific name of the dynamic form for identification reasons |
| Classification | String | An identifier pertaining to the part of the Self Start system that the dynamic form belongs to |
| Description | String | Displays some simple information about the form and its field |

1. ***DynamicFormQuestion* class**

|  |  |  |
| --- | --- | --- |
| Attribute name | Type | Brief Description |
| Question | String | The specific question to the dynamic form it exists within. |
| Answer | String | The users answer to the dynamic form question |

# Entity Class Diagram

