**CRC Cards** for CS4013 Project

**Class:** PropertySystem.java

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| **Responsibilities** | **Collaborators** |
| Provides Command Line Interface | PropertyMenu.java |
| Provides Graphical User Interface | MainGUI.java |
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**Class:** ManagementMenu.java

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| **Responsibilities** | **Collaborators** |
| Runs a menu for management functionality. | PropertyMenu.java |
| Provides a list of choices of properties and owners to the user. | Property.java |
| Gets the routing key of a property and searches for properties that contain it. | Owner.java |
| Rounds up doubles to two decimal places. | TaxCalculator.java |
|  | Payments.java |
|  | Properties.java |
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**Class:** PropertyMenu.java

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| **Responsibilities** | **Collaborators** |
| Runs a menu for owners. | Owner.java |
| Provides a list of registered owners. | Property.java |
| Registers new users (owners). | Payments.java |
| Registers new properties and makes sure that parameters are correct. | Properties.java |
| Provides a list of choices of properties to the user. |  |
| Allows user to view properties. |  |
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**Class:** Properties.java

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| **Responsibilities** | **Collaborators** |
| Holds a list of properties registered. | Property.java |
| Adds a new property when one is registered. |  |
| Gets the list of properties registered. |  |
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**Class:** Property.java

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| **Responsibilities** | **Collaborators** |
| Registers a property and its tax owed. | PropertyTax.java |
| Shows every aspect of the property, such as address, postcode, market value, tax owed, years due, etc. |  |
| Pays tax owed for property. |  |
| Rounds up doubles to two decimal places. |  |
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**Class:** PropertyTax.java

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| **Responsibilities** | **Collaborators** |
| Calculates the tax owed for the property. | TaxCalculator.java |
| Displays how many years are due for tax payments. | Property.java |
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**Class:** TaxCalculator.java

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| **Responsibilities** | **Collaborators** |
| Calculates the tax owed for the property, according to the rates set. |  |
| Can be swapped out or altered to fit new tax calculation rules. |  |
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**Class:** Payments.java

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| **Responsibilities** | **Collaborators** |
| Records payments for a property’s tax and saves info in .csv files. | Property.java |
| Can add new payments made for a property tax. |  |
| Shows payments that are made for a specific property |  |
| Shows all payments made by an owner. |  |
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**Class:** Owner.java

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| **Responsibilities** | **Collaborators** |
| Records the name of an owner, their list of properties and their tax payments. | Property.java |
| Allows an owner to register a new property. | Properties.java |
| Shows the name of an owner, their list of properties and their tax payments. | Payments.java |
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**Class:** MainGUI.java

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| **Responsibilities** | **Collaborators** |
| Runs the GUI of main code | LogInScene.java |
| Runs the login page first |  |
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**Class:** LogInScene.java

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| **Responsibilities** | **Collaborators** |
| Provides login page for the GUI | UserScene.java |
| Checks if the login and password is valid/invalid | AdminScene.java |
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**Class:** AdminScene.java

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| **Responsibilities** | **Collaborators** |
| Provides Admin page for the GUI |  |
| Allows to log out from the current account |  |
| Provides data about Tax status of owners and properties | Owner.java |
| Provides list of overdue property taxes for particular year | Payment.java |
| Provides tax statistics for area, based on Eircode. | Property.java |
| Provide option to change rates and levies contributing to property tax. | Properties.java |

**Classes:** UserScene.java

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| **Responsibilities** | **Collaborators** |
| Provides User page for the GUI |  |
| Provides option to register new owner | Owner.java |
| Provides option to register new property | Payment.java |
| Provides option to Pay Taxes (can choose a property and specific tax type) | Property.java |
| Provides option View (by year/all years), then it asks to choose a property and shows all details) | Properties.java |
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