

## Property

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| <ul style="list-style-type: none"><li>Record the owner, address, eircode, estimated market value, location category, and whether or not the property is the principal private residence of the owner.</li><li>Provide functionality for new properties to be registered.</li><li>Calculate the tax due on the property.</li></ul> | <ul style="list-style-type: none"><li>PaymentRecord</li></ul> |
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## PaymentRecord

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| <ul style="list-style-type: none"><li>Record whether the tax for a year was paid or not and if so, how much was paid.</li></ul> | <ul style="list-style-type: none"><li>Property</li></ul> |
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## PropertyOwner

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| <ul style="list-style-type: none"><li>Allow owners to register new properties.</li><li>Allow owners to pay property tax on their properties.</li><li>Allow owners to view a list of their properties and tax due on them</li><li>Allow owners to query specific years for details on their tax that year.</li><li>Give owners a balancing statement for any year or property.</li></ul> | <ul style="list-style-type: none"><li>Property</li></ul> |
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## DepartmentManagementMenu

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| <ul style="list-style-type: none"><li>Get property tax payment data for any property.</li><li>Get property tax payment data for any property owner.</li><li>Get a list of all overdue tax for a particular year(optionally just for a region with an Eircode routing key)</li><li>Get statistics about property tax in a given region using its Eircode routing key.</li><li>Investigate the impact of hypothetical changes to the rates associated with calculating property tax due and give the user a summary of how the revenue collected would change.</li></ul> | <ul style="list-style-type: none"><li>Property</li><li>PropertyOwner</li></ul> |
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## CommandLineRun

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| <ul style="list-style-type: none"><li>• Provide a command line interface for the system</li><li>• Allow the user to select to access the system as either a property owner or as the Department of Environment</li><li>• As a property owner, allows the owner to register a new property, pay tax on a property, view all their properties and get a balancing statement for a particular year.</li><li>• As the Department of Environment, allows the user to get tax data for a particular property, get tax data for a particular property owner, get a list of all overdue property tax for a particular year, get property tax statistics for a particular area and investigate the impact of possible changes to the rates and levies involved in property tax.</li></ul> | <ul style="list-style-type: none"><li>• PropertyManagement</li><li>• PropertyOwner</li><li>• DepartmentManagementMenu</li></ul> |
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## PropertyManagement

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| <ul style="list-style-type: none"><li>• Read and write information about properties to csv files</li><li>• Maintain an ArrayList of all properties and owners</li><li>• Add and remove properties from a csv file</li><li>• Register a new owner to a csv file</li><li>• Get an ArrayList of properties by their location or by their owner</li></ul> | <ul style="list-style-type: none"><li>• Property</li><li>• PropertyOwner</li></ul> |
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## ExitHandlerClass

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| <ul style="list-style-type: none"><li>• Handles the exiting of the program for the GUI</li></ul> |  |
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## GuiRun

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| <ul style="list-style-type: none"><li>• Launches the GUI where the user is asked to then select if they wish to use the program as a property owner or as the Department of Environment.</li></ul> |  |
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## OwnerGui

- Registers a new Property Owner
- Registers new properties for owners
- Calculates and pays tax due for specific owners
- Allows owners to view a list of their properties
- Allows owners to view payment records

- PropertyOwner
- PropertyManagement
- Property
- PaymentRecord

## DepartmentGui

- Displays payment data for a property
- Displays payment data for owner
- Displays a list of overdue tax for a certain year
- Displays tax statistics for a particular area
- Investigate impact in change in rates and levies

- DepartmentManagementMenu
- Property
- PropertyManagement
- PropertyOwner