- The system will allow property owners to register each of their properties
- Owner pay the property tax due for the properties
- View a list of their properties
- View the tax that is due currently per property
- View any overdue tax (hasn't been paid for a previous year)
- Query specific previous years and get a balancing statement for any particular year or property
- The property owner should be able to maintain a record of all payments of the property charge on a yearly basis
  - o history?
- A property owner will be able to view payments made for all their owned properties.
- The property must be registered on the system before the property tax can be paid
- A flat charge of €100 if the property is not the principle private residence of the owner.
- Apply a 7% penalty, compounded for each year that a property tax is unpaid.

Initial Design Initial design discussed equally as a group

Noun/Classes(possible) Property (Tax variable) Calculation class

Verb/Methods

Owner can View a list of their properties

Department can view list of properties under certain headings

Register property

Pay tax

Get balance

Access previous records (csv file being read??)

Register owner

Find tax overdue and apply penalty

Be able to get statistics (only needs to be available to department) this is based off eircode

Relationship	Symbol	Line Style	Arrow Tip
Inheritance		Solid	Triangle
Interface Implementation	>	Dotted	Triangle
Aggregation	<b>~</b>	Solid	Diamond
Dependency	>	Dotted	Open

## Example

## Data fields for property class

Property owner(s)
Address
Postcode/Eircode
estimated market value
location category (City/Large town/Small town/Village/Countryside)
Principal private residence (yes/no)

Method: append new property into the property csv files

## Need exception handling for reading csv files

Probably need exception handling for user input = Built in handling in Scanner class

Payment arraylist (payments made by owner in the array, if not there, the payment is overdue)

For eircode Eircode is 7 characters long First 3 is the routing key to identify the area Possibly have two classes with main method
One of the classes has main method for running from command line and taking arguments from command line
The other class with main method implements the GUI

Responsibilty of class:

Property class Read csv file

Property History
Getting previous info on property
Show that there is overdues

Department Personnel class
Do statistics in here

Tax Calculator class Impose penalty for overdue tax

Payment class Records amount The year paid

Owner class
Pay tax and add to list of type payment