Key Boundary Classes and Control Classes

Boundary Classes (interface for actor to interact with)

Name	Description
NestlingAIMainUI	User arrives on the Landing Page with sign up/ login option
RegistrationForm	For new users to register an account
LoginForm	For an Existing users to login to the account
ResetForm	For users to key in their account username/ Email before authentication
NewPasswordForm	For Users to key in a new password
DesiredPropertyForm	For User to fill in desired property attributes
ExploreButton	To proceed from DesiredPropertyForm to HomePageInterface
HomePageInterface	User arrives on the page with tab panel buttons, "what's chipping panel", 'Current Listing' button
ArticlePiecePage	To display each article piece
DesiredPropertyButton	To proceed from HomePageInterface to DesiredPropertyForm
CurrentListingButton	To proceed from HomePageInterface to FIlteredListingInterface
FilteredListingInterface	Displays filtered properties with percentage matches beside them.
IndividualListingPage	For user to navigate to a specific current listing
OpinionGeneratorPage	Displays 1 selected property vs desired property assisted with the AI chat Bot.

FavouritesButton	To proceed from HomePageInterface to FavouritesPage
FavouritesPage	Display all the saved properties from filtered listings. These properties are used for comparison later.
CompareButton	To proceed from HomePageInterface to CompareListingInterface
CompareListingInterface	Displays comparison between 2 favourite properties assisted with the AI chat Bot.

Control Classes (internal processing logic)

Name	Description
InputValidator	To verify input follows the requirements of username and password
CredentialManager	To handle account information and saves the information into database
DesiredPropertyAPIManager	To send request for URA listing (API)
DesiredPropertyPriceEstimator	To estimate the price of the desired property using the past transaction data.
ArticlePieceManager	To manage the thought leadership articles
PercentageMatchAPIManager	To send requests for PropertyGuru (current) listing (API).
PercentageMatchEstimator	To find current listings that match more than 60% to desired property
FavouritesManager	To fetch appropriate current listing data, save particular listing
CompareListingManager	To fetch the 2 favorites listing data
OpinionGenerator	To generate opinion from AI on whether this current listing is worth buying