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| Main Activity |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| binding | Private lateinit var | Main Activity | Set layout to show Main Activity |
| captured\_Image | Private lateinit var | ImageView | Store captured image and view in Main Activity |
| result\_insect | Private lateinit var | TextView | Empty variable to be stored by result text after detection |
| brand\_name | Private lateinit var | TextView | Empty variable to be stored by result text after detection |
| onBackPressedTime | Private var | Int /0L | Set variable for Alert Dialog |
| GALLERY\_REQUEST\_CODE | Private val | Int/123 | assign code for Gallery to access |
| takePicturePreview | Private val |  | Initiate camera |
| onResult | Private val |  | Output result |
| onResultReceived | Private fun | Int | Compare code and initiate gallery if true |
| outputGenerator | Private fun | bitmap | Detect and compare image to model |
| TestTrainModel | val | Trained model | Store trained model |
| newBitmap | val | bitmap |  |
| tfImage | val | bitmap |  |
| outputs | val |  |  |
| detectionResult | val |  |  |
|  |  |  |  |

Kotlin Data Dictionary

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| SplashScreen |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/ function** |
| intent | val | SplashScreen | Output splash screen when opening then redirect to onboard activity.  Onboard will show if activity is initiated for the first time. |

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| Library Activity |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| binding | Private lateinit var | Library Activity | Set Layout to Library resource layout |
| view | val | binding | Set view to binding (Library Layout) |
| onClick | fun |  | Set different data to card view/ id |
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| Pest Info Activity |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| binding | Private lateinit var | Library Activity | Set Layout to Library resource layout |
| view | val | binding | Set view to binding (Library Layout) |
| onClick | fun |  | Set different data to card view/ id |
| carouselView | val | Carousel View | Show images in carousel view |
| list | val | items | List of images to show in carousel view |

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| Instruction Activity |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| binding | private lateinit var | Library Activity | Set Layout to instruction resource layout |
| view | val | binding | Set view to binding (Instruction Layout) |

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| Info Activity |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| linkView | val | link | Clickable link referrence |
| backButton | val | cardView | Clickable button that allows user to return to main activity |

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| Onboard Fragment |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| title | Private lateinit var | String | Store title |
| desc | Private lateinit var | String | Store description |
| imageResource | Private var | Int | Store json File (animation used in onboarding) |
| titleView | Private lateinit var | TextView | Show title |
| descView | Private lateinit var | TextView | Show description |
| image | Private lateinit var | LottieAnimationView | A library that allows you to show animation (json file) |
| fBinding | Private var | OnBoard Fragment | Set Layout to OnBoardFragment |
| binding | array |  | Get OnBoardFragment |
|  | Companion object |  | List of parameters; title, description and image |
| ARG\_PARAM1 | Private const val | param1 | create strorage for title |
|  |  |  |  |
| ARG\_PARAM2 | Private const val | param2 | Create storage for description |
| ARG\_PARAM3 | Private const val | param3 | Create storage for animation/image |
| fragment | val |  | Store OnboardFragment |
| args | val |  | Pass data to different destinations |

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| Onboard Activity |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| onViewPager | Private lateinit var | ViewPager2 | Store Activity |
| btnPrev | Private lateinit var | button | Allows user to set activity to previous state |
| preference | Private lateinit var | Sharedpreferences | To check if the activity was initiated or not |
| pref\_show\_onboard | Private val | “ Onboard” | Assign value to check for the initiation of one time activity |
| onPageSelected | Override fun | Int | Change button title depends on selected position |
| onPageScrolled | Override fun | Int, Float | Set pages of onboard fragment |
| onPageScrolledStateChanged | Override fun | Int | For page indicator |
| getItem | Private fun |  | pages |

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| ViewPager Fragment |
| **Aliases/ ID** | **Variable type** | **Layout/ Value** | **Description/function** |
| context | Private val |  | Access current fragment |
| createFragment | Override fun | Int | Assign fragment positions |
| getItemCount | Override fin | Int | Finish activity when position meets the assigned number |