LibOCR

Details Design

**Revision History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Author** | **Location** | **Content** |
| 07/20/2018 | AnhND | All | Initialize |

# CameraViewer

## Overview

User control is defined for Window form environment.

## Class Diagram

### ConfigVLC

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Setup related library VLC | | | |
| **Parameters** | directory | In | strring | VLC 32 bit folder path in computer |
| **Note** |  | | | |
| **Return** | N/A |  |  |  |

### CameraViewer

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Constructor | | | |
| **Parameters** |  |  |  |  |
| **Note** | InitializeComponent | | | |
| **Return** | N/A |  |  |  |

### ConfigCamera

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Setup Carmera uri | | | |
| **Parameters** | uri | In | strring | Camera uri |
| **Note** | Set uri to carmerURi | | | |
| **Return** | N/A |  |  |  |

### ShowCamera

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Show Camera to GUI | | | |
| **Parameters** | directory | In | strring | VLC 32 bit folder path in computer |
| **Note** |  | | | |
| **Return** | N/A |  |  |  |

### Capture

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Take snap shot of camera and save to filePath | | | |
| **Parameters** | filePath | In | strring | file Path |
| **Note** | Call TakeSnapshot | | | |
| **Return** | Camera State | CameraState.Success | Success | |
|  |  | CameraState.CaptureError | Failure | |

# CameraViewerWPF

## Overview

User control is defined for WPF enviroment

## Details

### ConfigVLC

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Setup related library VLC | | | |
| **Parameters** | directory | In | strring | VLC 32 bit folder path in computer |
| **Note** |  | | | |
| **Return** | N/A |  |  |  |

### CameraViewerWPF

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Constructor | | | |
| **Parameters** |  |  |  |  |
| **Note** | InitializeComponent | | | |
| **Return** | N/A |  |  |  |

### ConfigCamera

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Setup Carmera uri | | | |
| **Parameters** | uri | In | strring | Camera uri |
| **Note** | Set uri to carmerURi | | | |
| **Return** | N/A |  |  |  |

### ShowCamera

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Show Camera to GUI | | | |
| **Parameters** | directory | In | strring | VLC 32 bit folder path in computer |
| **Note** |  | | | |
| **Return** | N/A |  |  |  |

### Capture

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Summary** | Take snap shot of camera and save to filePath | | | |
| **Parameters** | filePath | In | strring | file Path |
| **Note** | Call TakeSnapshot | | | |
| **Return** | Camera State | CameraState.Success | Success | |
|  |  | CameraState.CaptureError | Failure | |

# Appending

## Set up environment

Environment: .Net framework 4.6, **VLC 32-bit**