

iSurveillance

Fall Semester Presentation 2011-2012

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Agenda

1. Introduction
2. System Modules
3. Demo - Simulated Example
4. Difficulties
5. Future Work
6. Conclusion
7. Q & A Section

I. Introduction

- Motivation
- Objective

Motivation

- The Importance of Safeguarding

iSurveillance
Local Authority

Motivation

- Current System

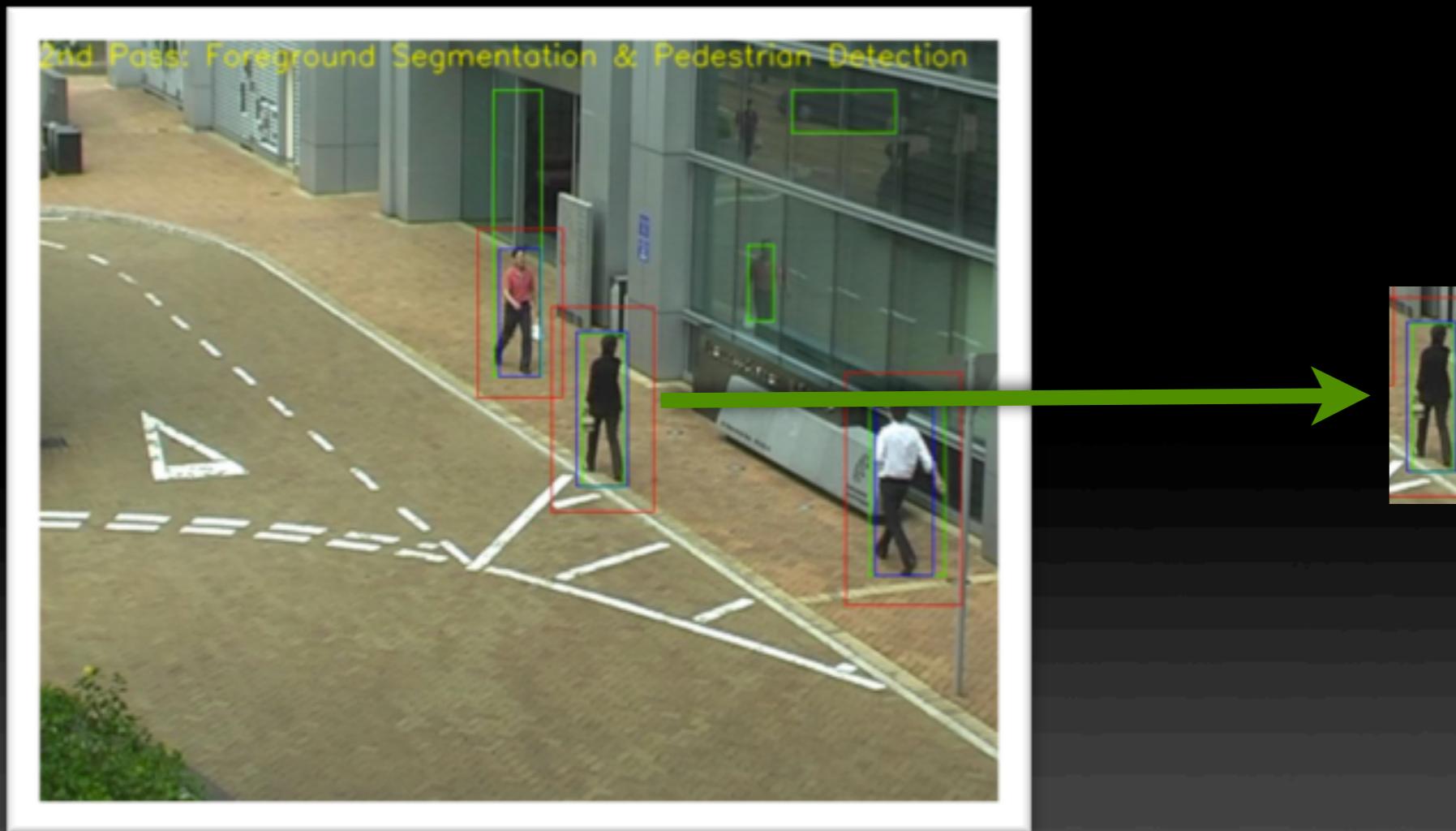


Motivation

- Deficiency of Current Systems

Motivation

- ViewLab



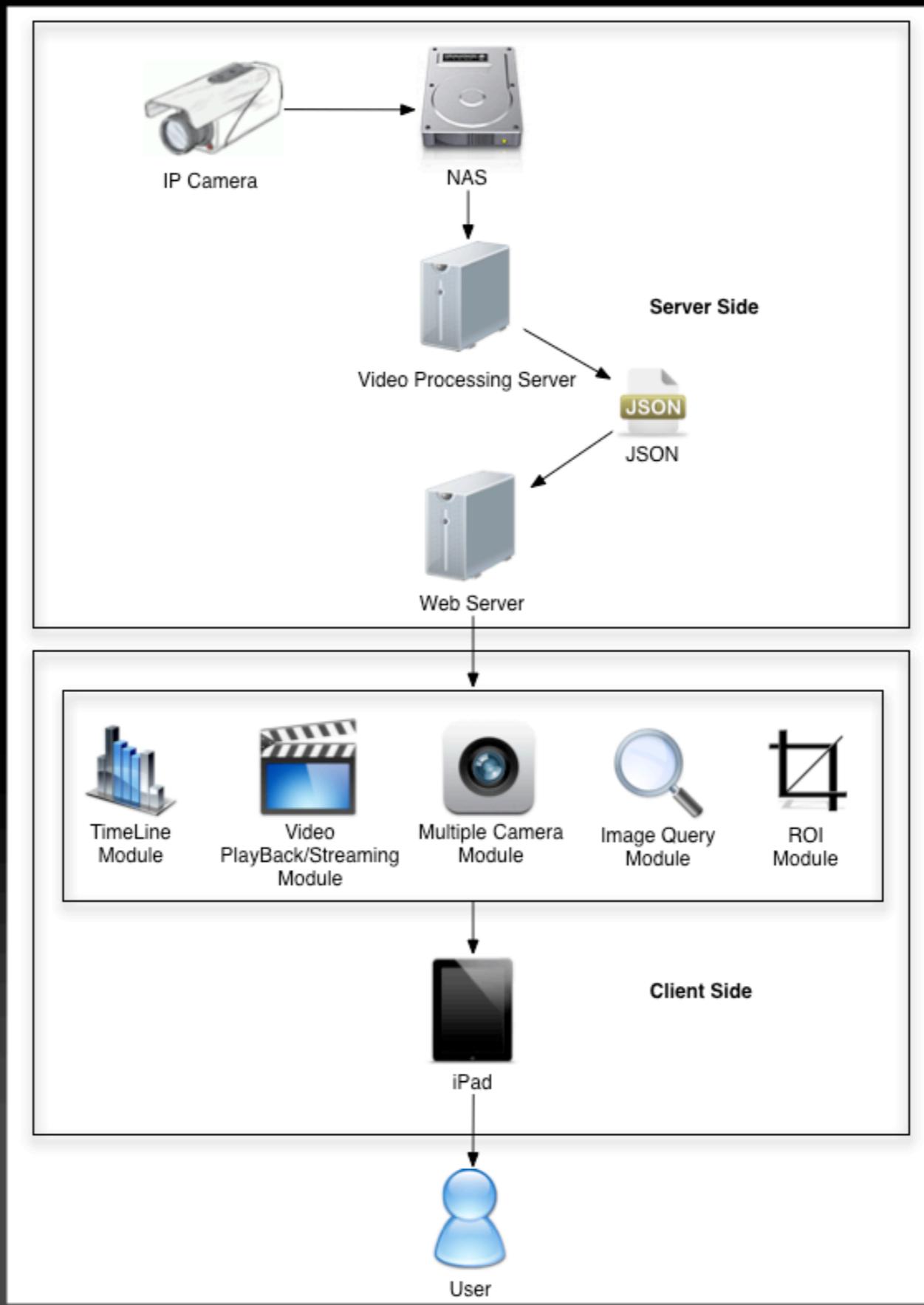
Objective

- Develop an Auxiliary tool for Security Guards
- To assist their daily jobs
- Make their jobs become easier

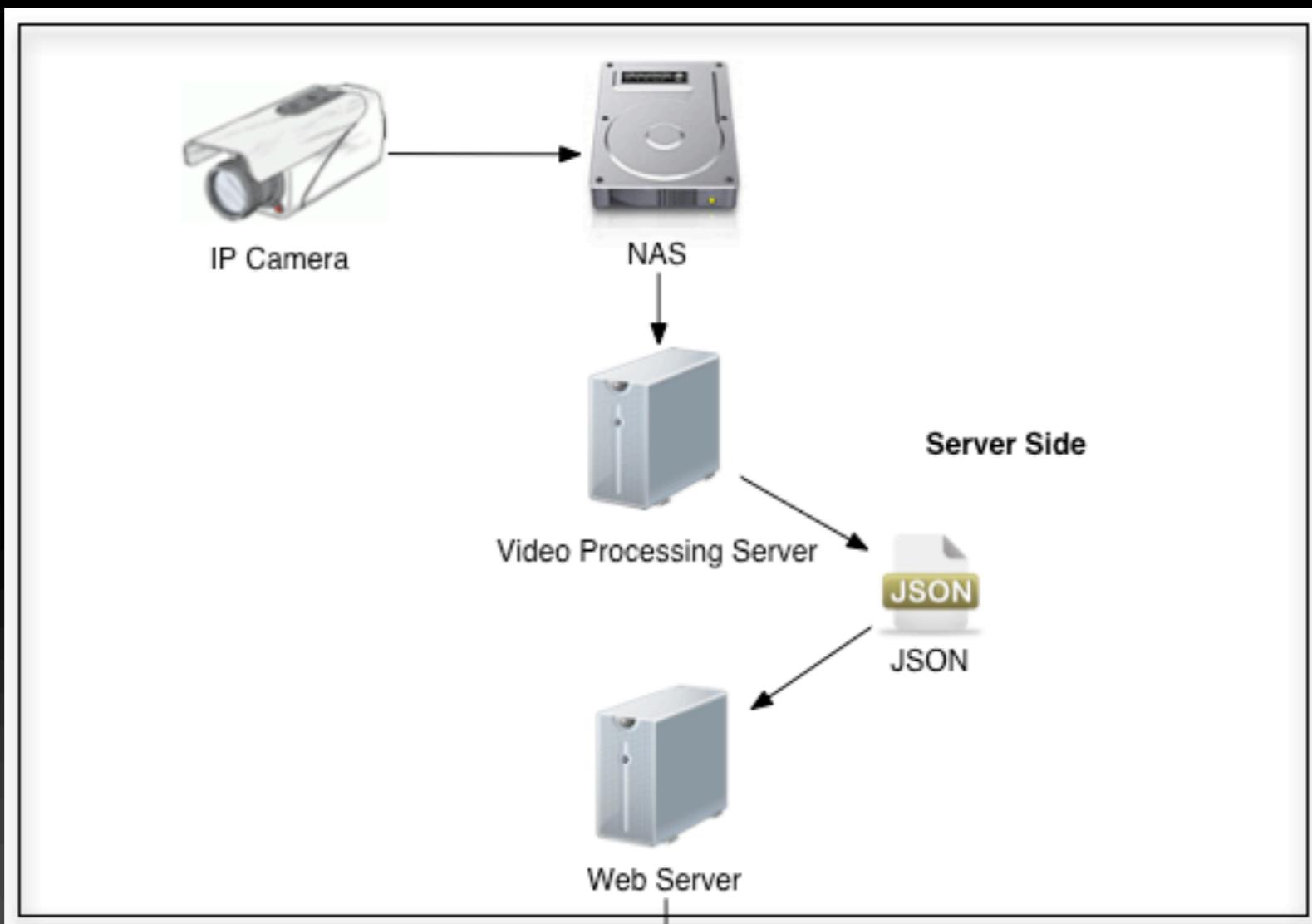
2. System Modules

- System Block Diagram
- TimeLine Module
- Video PlayBack/Streaming Module
- Multiple Cameras Module
- Image Query Module
- ROI Module

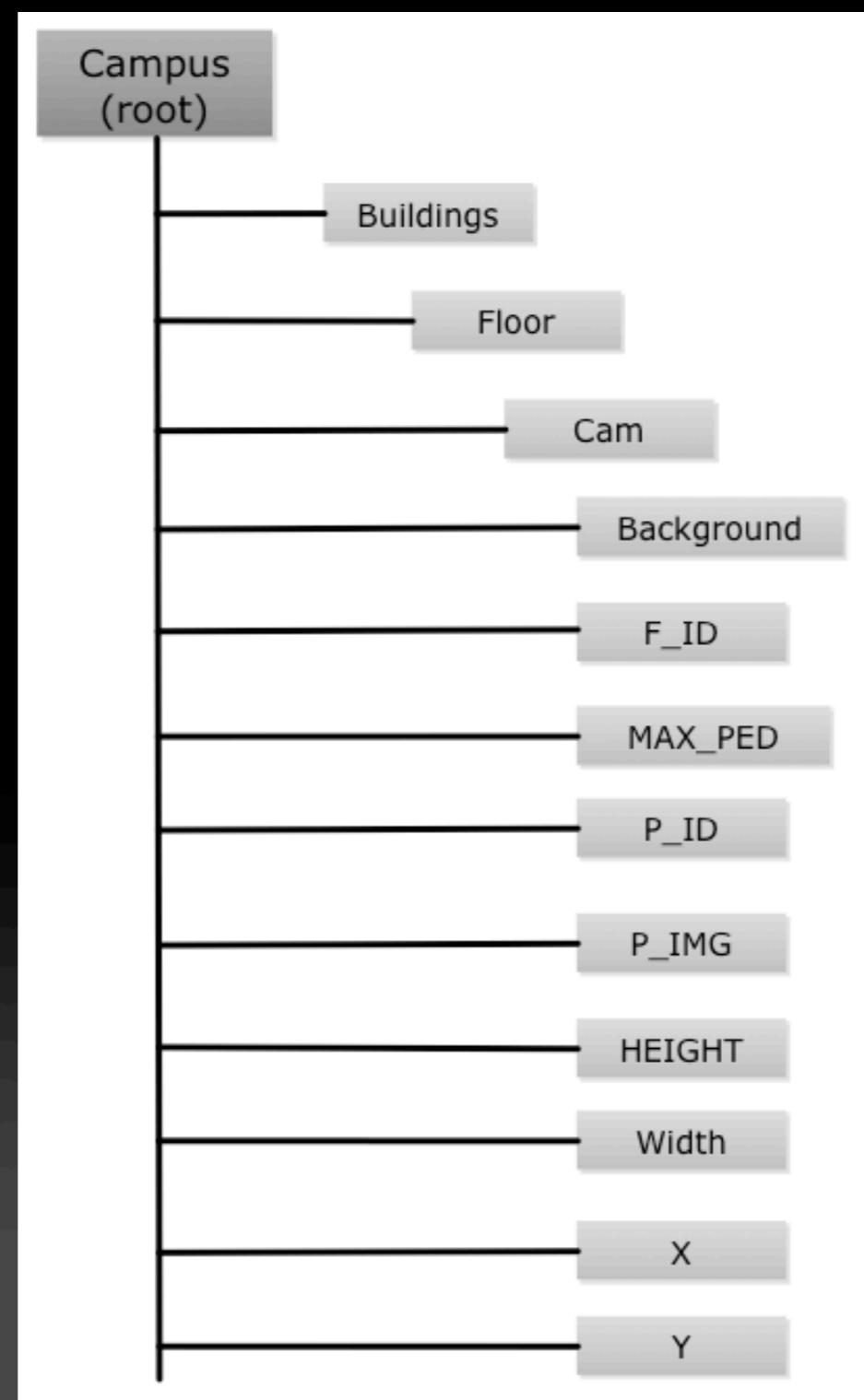
System Block Diagram



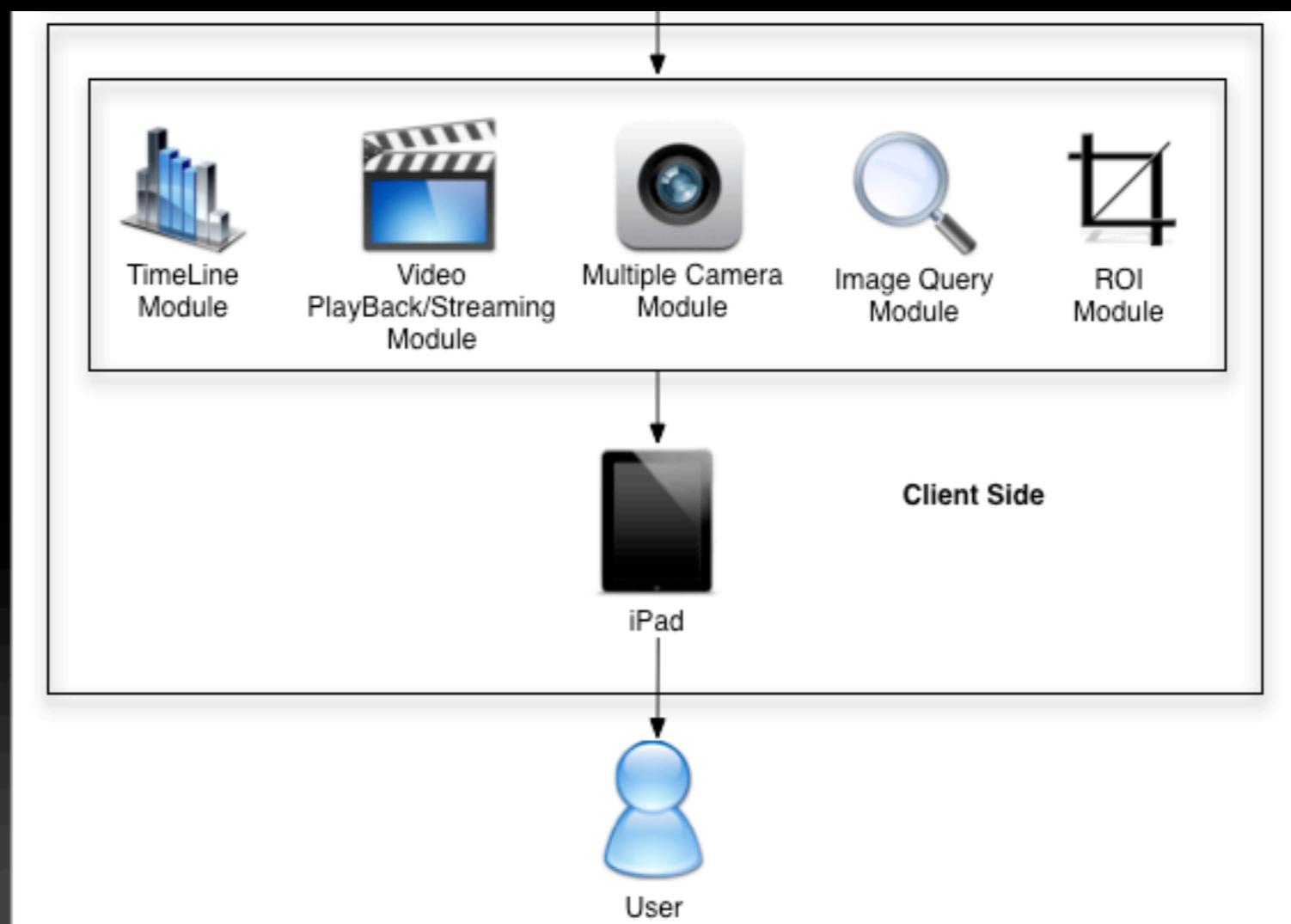
Server Side



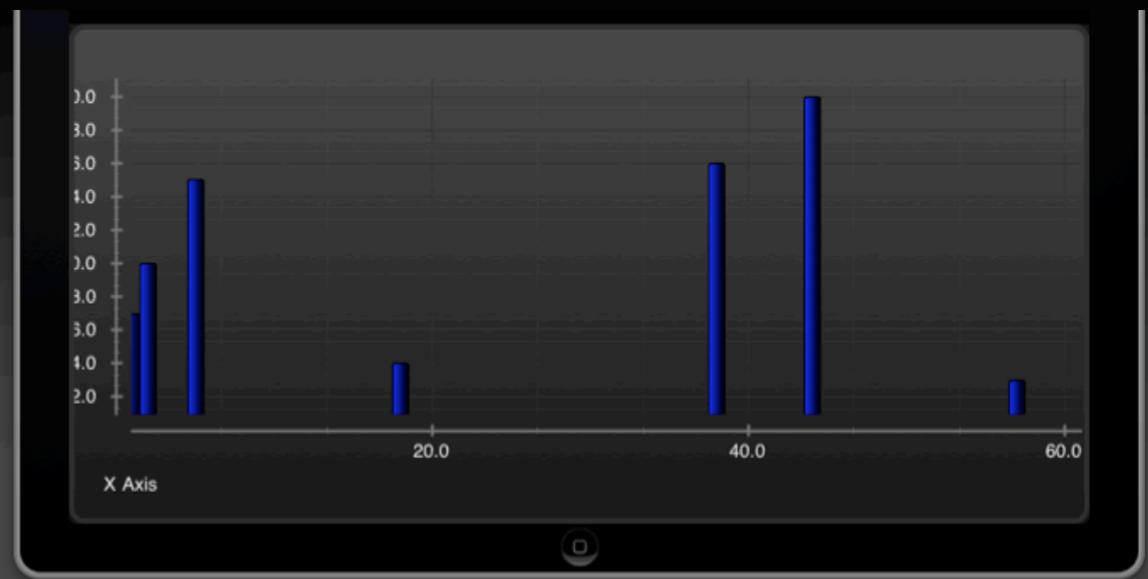
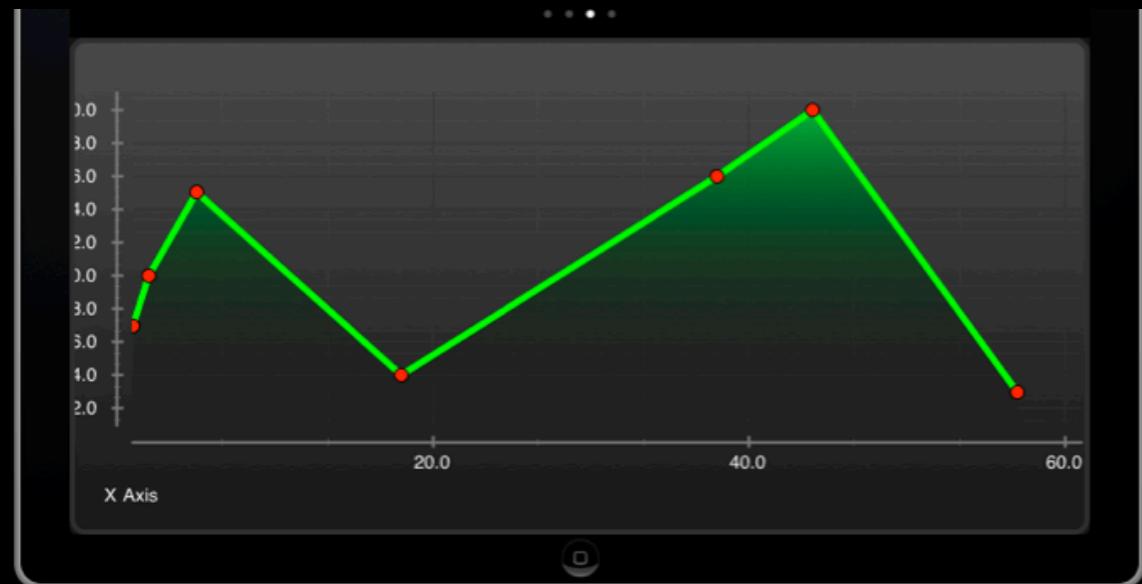
JSON



Client Side



TimeLine Module



Video PlayBack/ Streaming Module



Multiple Cameras Module (Prototype)

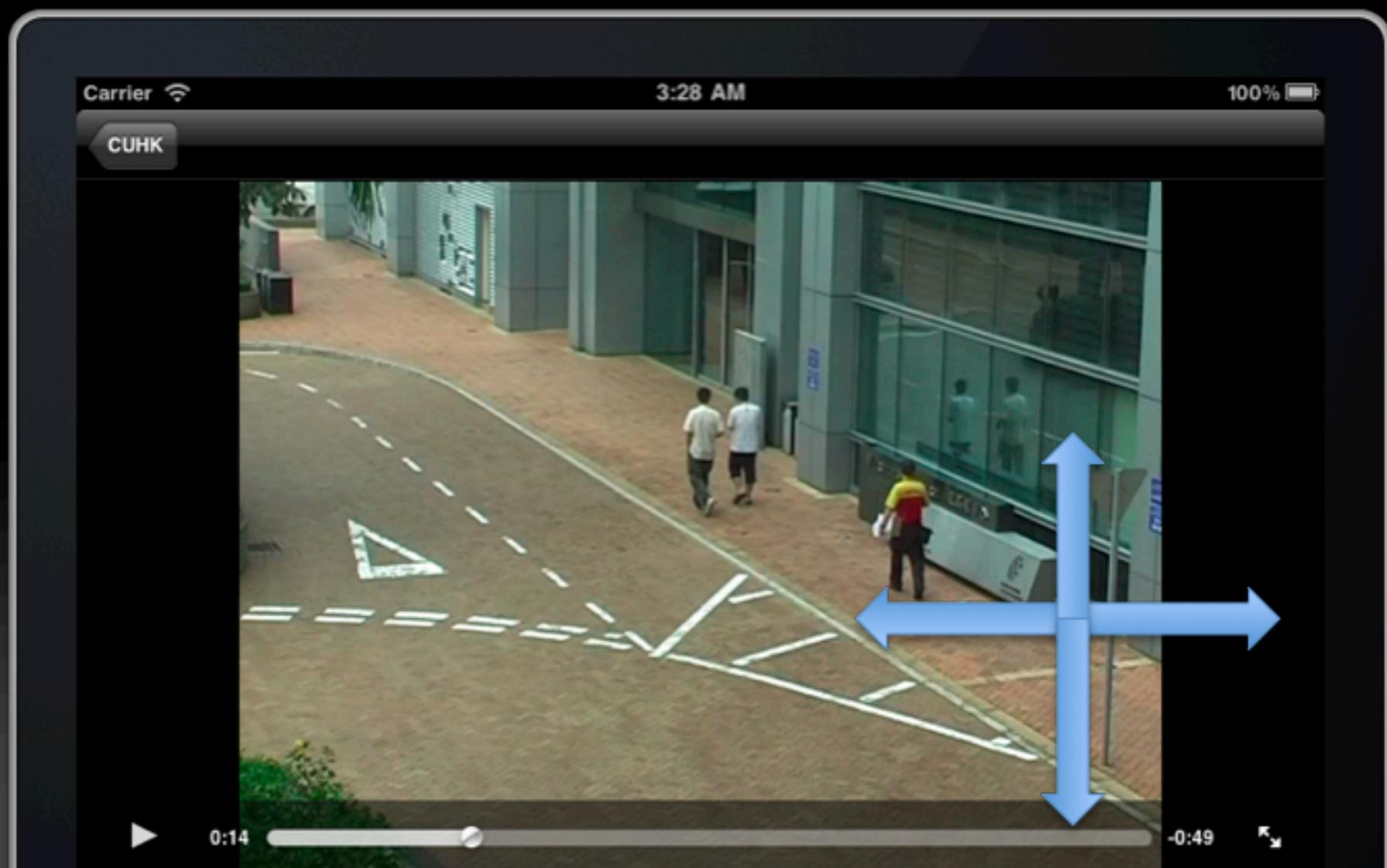
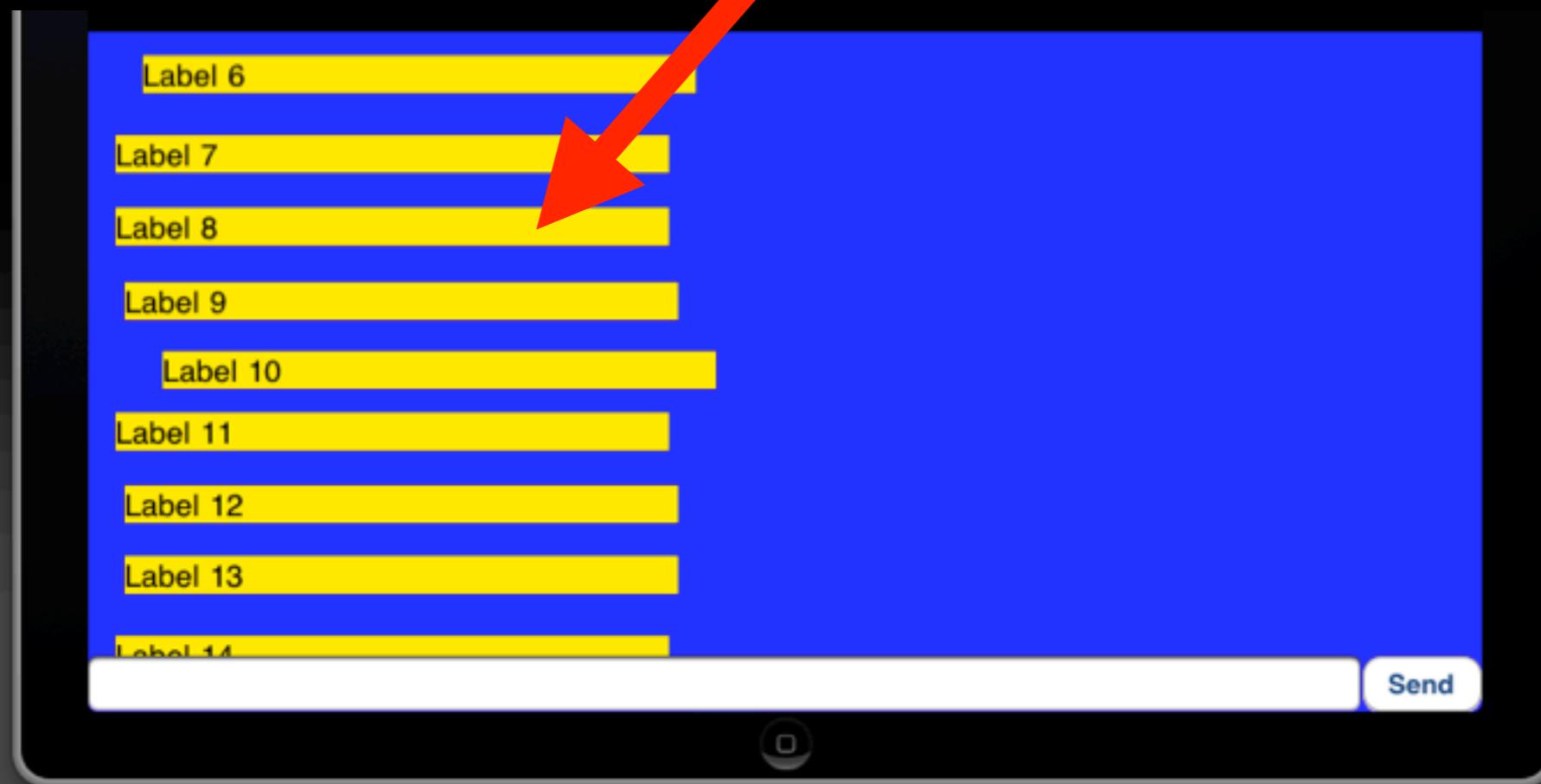


Image Query Module (Prototype)



ROI Module



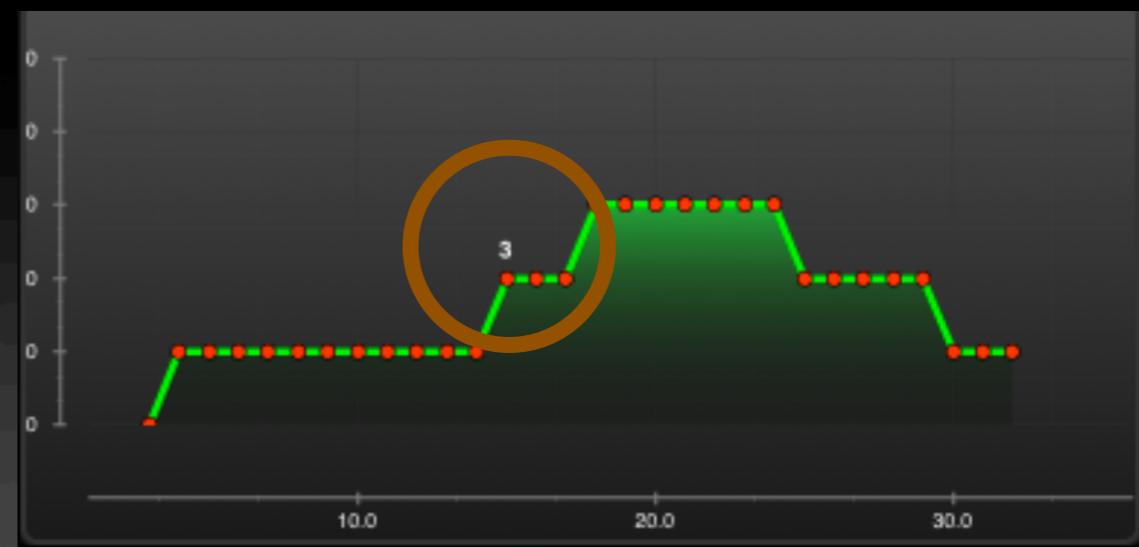
3. Demo

- Simulated Example

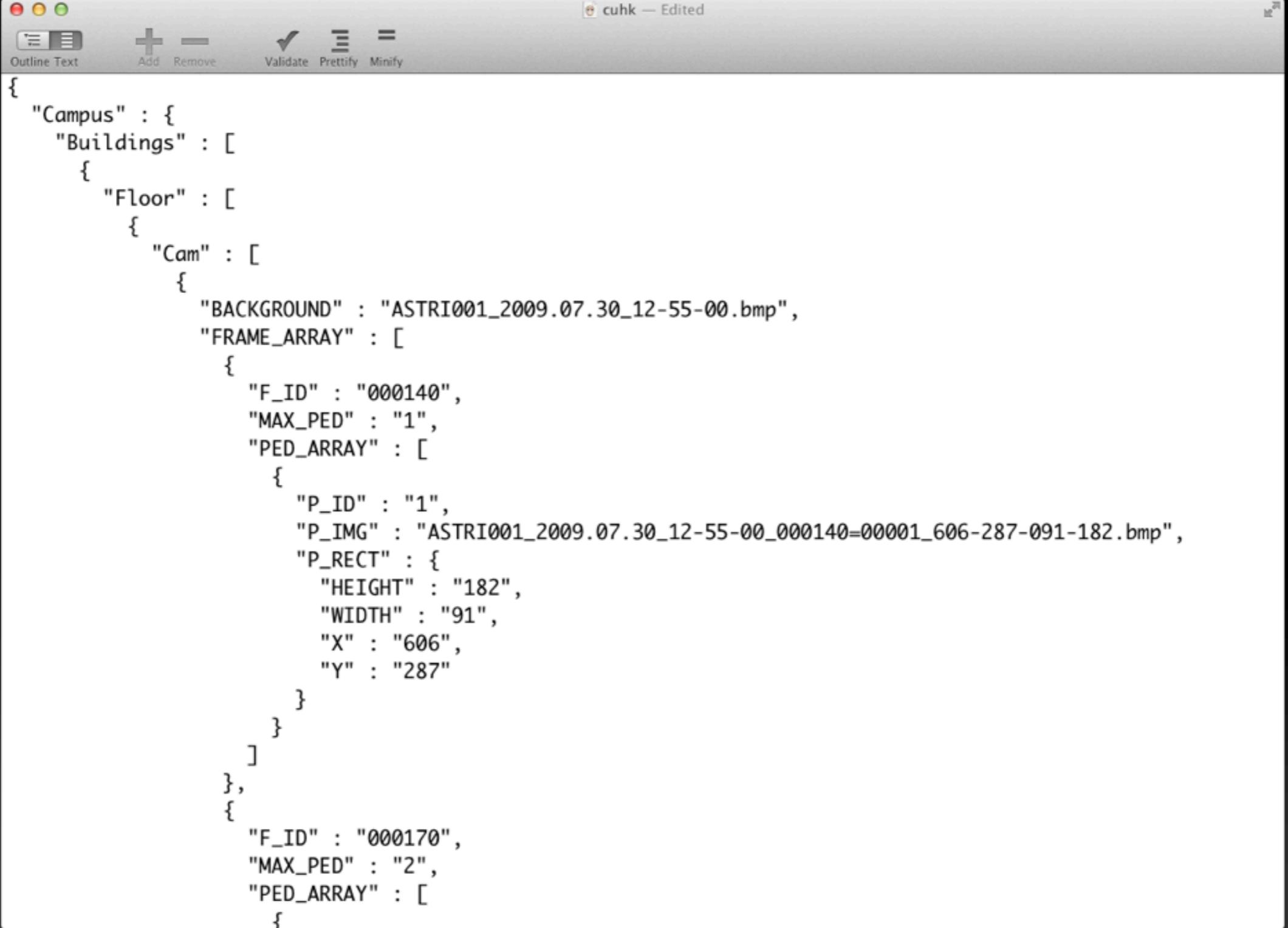
4. Difficulties

- TimeLine Module Optimization
- ROI Co-Ordination Calculation

TimeLine Module Optimization



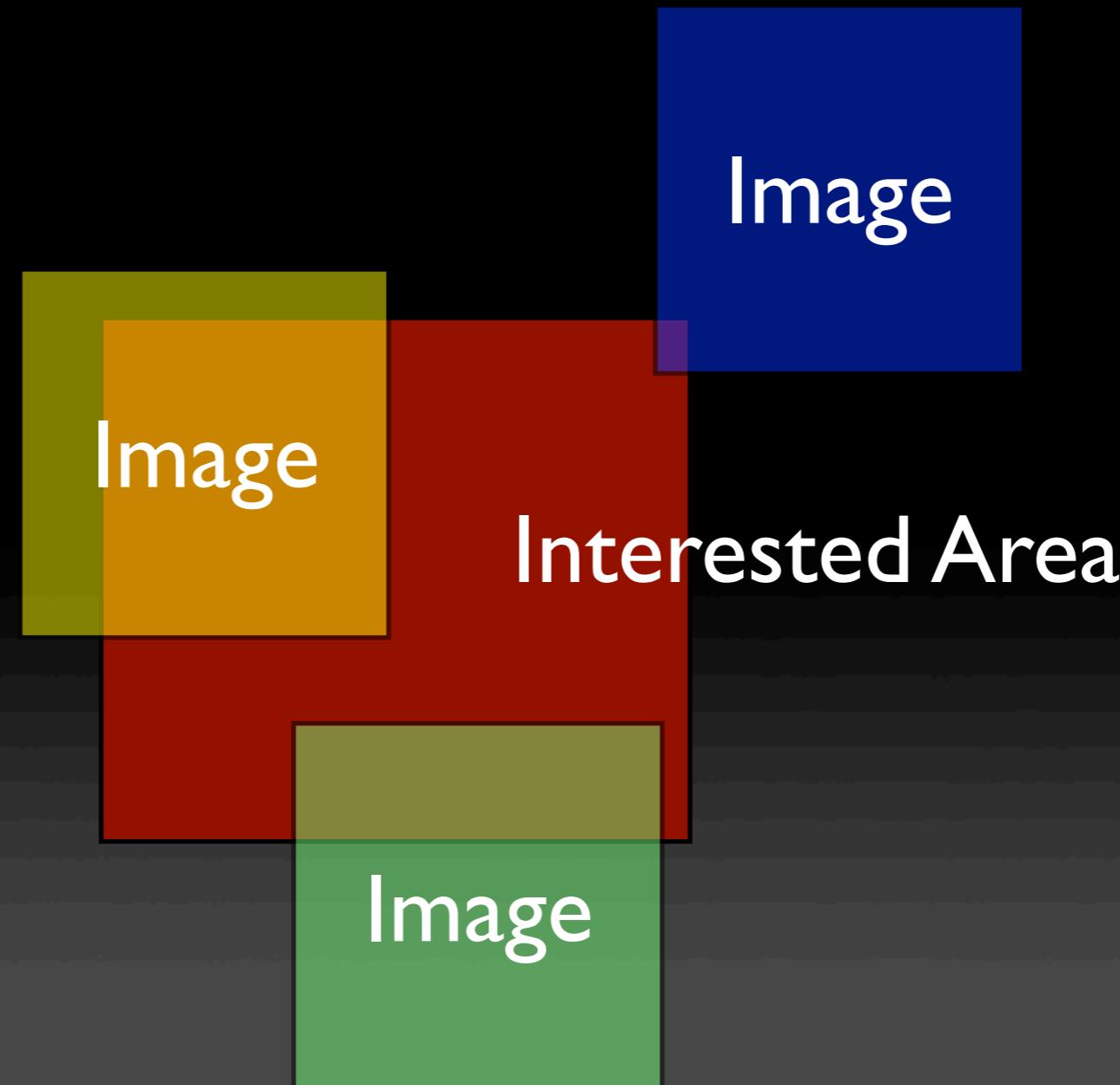
TimeLine Module Optimization



The screenshot shows a JSON editor window titled "cuhk — Edited". The interface includes standard OS X-style window controls (red, yellow, green) and a toolbar with icons for Outline, Text, Add, Remove, Validate, Prettify, and Minify.

```
{  
  "Campus" : {  
    "Buildings" : [  
      {  
        "Floor" : [  
          {  
            "Cam" : [  
              {  
                "BACKGROUND" : "ASTRI001_2009.07.30_12-55-00.bmp",  
                "FRAME_ARRAY" : [  
                  {  
                    "F_ID" : "000140",  
                    "MAX_PED" : "1",  
                    "PED_ARRAY" : [  
                      {  
                        "P_ID" : "1",  
                        "P_IMG" : "ASTRI001_2009.07.30_12-55-00_000140=00001_606-287-091-182.bmp",  
                        "P_RECT" : {  
                          "HEIGHT" : "182",  
                          "WIDTH" : "91",  
                          "X" : "606",  
                          "Y" : "287"  
                        }  
                      }  
                    ]  
                  },  
                  {  
                    "F_ID" : "000170",  
                    "MAX_PED" : "2",  
                    "PED_ARRAY" : [  
                      {  
                        "P_ID" : "2",  
                        "P_IMG" : "ASTRI001_2009.07.30_12-55-00_000170=00002_606-287-091-182.bmp",  
                        "P_RECT" : {  
                          "HEIGHT" : "182",  
                          "WIDTH" : "91",  
                          "X" : "606",  
                          "Y" : "287"  
                        }  
                      }  
                    ]  
                  }  
                ]  
              }  
            ]  
          }  
        ]  
      }  
    ]  
  }  
}
```

ROI Co-Ordination Calculation



Our Solution

Image

Interested Area

5. Future Work

- Image Query Module
- Multiple Cameras Module
- Live Streaming Module

6. Conclusion

- Why need us?
- Advantage

7. Q & A Section

The End
Thank You