**COP 5339: OBJECT ORIENTED PROGRAMMING**

**MIEBAKA TOBY – Z23472301**

**ALONSO VALAZQUEZ-LIZCANO**

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**PROJECT TOPIC: SYSTEM VALIDATION SOFTWARE**

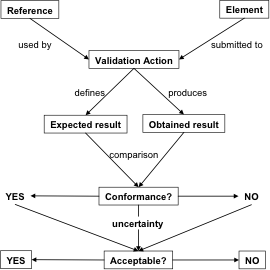
**PROJECT DESCRIPTION**

Validation of a system (e.g. product, service, project or enterprise) using various validation tasks, validation Types (e.g. document, requirements, design, activity, process, etc) and validation inputs ( e.g. object recognition, email, etc). The system combines traditional workflow verification with visual 2D picture input using AI algorithms (e.g. image recognition) as part of the validation process.

A project/task is defined (e.g. delivery of a carton of beer), a validation task is defined (e.g confirm receipt/delivery note, confirm picture of beer (using image recognition), etc). Validation input are selected (e.g. email from receiver confirming receipt, confirmation from algorithm on image match, etc). Then final acceptance by stakeholder is given.

This system can be used in various system for validation of transactions, contracts, shipping logistics etc. It combines the traditional workflow with AI input to improve validation process.

**THE VALIDATION PROCESS (SEBOK)**



Definition and Usage of a validation action ([SEBoK Original](https://www.sebokwiki.org/wiki/File:Definition_and_usage_of_a_Validation_Action.png))

<https://www.sebokwiki.org/wiki/System_Validation>

**USER INTERACTION**

The users of the system will include the stakeholders/approvers that provide the validation required and the nature of the validation, the system that automatically validates, the owners/implementers of the task that will provide objective validation evidence, the system administrator that inputs the tasks.

User/System:

* Defines projects/new services to be carried out
* Defines validation tasks
* Defines validation types
* Defines input of validation e.g. pictures, email,
* Defines approvers/stakeholders

User/System:

* Creates projects/new services to be carried out
* Defines validation types
* Defines validation tasks
* Defines input of validation e.g. pictures, email,
* Selects approver
* Provides of objective evidence

User/System:

* Confirms completion of the job
* Requests for verification
* Approves verification

System

* Confirms validation type, tasks and inputs
* Checks evidence against database / algorithm
* Sends to approver

**SYSTEM REQUIREMENTS**

* Web based application
* OS will be for windows
* Program will be Java

**APPLICATION DESIGNERS**

* Miebaka Toby
* Alonso Velazquez-Lizcano