FACULTY OF COMPUTERS, INFORMATICS AND MICROELECTRONICS

TECHNICAL UNIVERSITY OF MOLDOVA

OBJECT-ORIENTED MODELING AND ANALYSIS

LABORATORY WORK #9

Modeling your project with Deployment Diagrams. Data Flow Diagrams. OntoUML.

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Laboratory work #9

1 Tasks

– Model your application using Deployment Diagrams;

– Create an overview of your project using Data Flow Diagrams; Choose any standard you like.

2 Theory

2.1 OntoUML

OntoUML is a pattern-based and ontologically well-founded version of the Unified Modeling Language (UML). Its meta-model has been designed in compliance with the ontological distinctions of a well-grounded theory, named the Unified Foundational Ontology (UFO). OntoUML includes a system of interrelated axiomatic theories, providing modeling foundations for all Conceptual Modeling major concepts, including theories for: types and taxonomic structures (including roles), part-whole relations, events, formal and material relations, dependent (weak) entities, attributes and attribute value and measurement spaces (roughly datatypes).

OntoUML (and its foundations) has been adopted by many institutions worldwide (in academia, industry and government). In particular, OntoUML has been considered as a candidate for addressing the OMG SIMF (Semantic Information Model Federation) Request for Proposals after a report of its successful use over the years by a department of the U.S. Department of Defense (DoD)

3   Deployment Diagrams

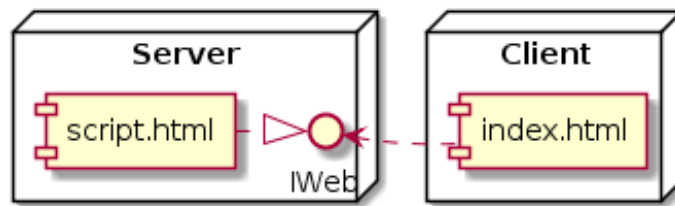In Figure 3.1 is represented the deployment diagram for the app.

Figure 3.1 – Website deployment diagram

4   Data Flow Diagram

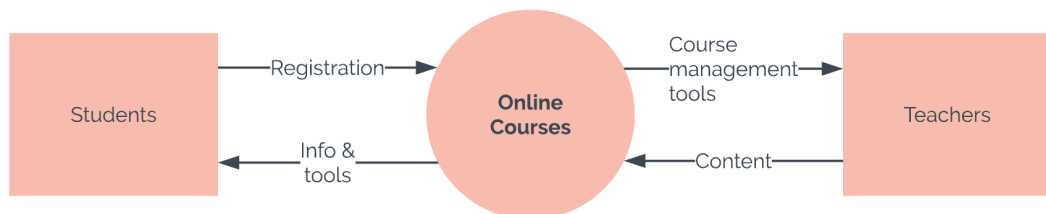In Figure 4.1 is represented the Data-Flow diagram for the app.

Figure 4.1 – Website Data Flow Diagram

5   Conclusion

In this laboratory work we learned to create Deployment and Data Flow diagrams.