# Report on Prior Knowledge of WIS Architecture

## Basic Understanding

Our initial understanding of WIS was that it refers to systems that manage, store, and distribute information over the web. We were aware that such systems involve a combination of databases, web servers, and client-side interfaces to provide users with access to structured and unstructured data.

## Knowledge of Components

Although we did not know the specific architecture of WIS, we had some familiarity with the following key components:

* \*\*Web Servers\*\*: We knew that web servers, such as Apache or Nginx, handle HTTP requests and serve web pages to users.
* \*\*Databases\*\*: We understood that web applications often rely on databases like MySQL, PostgreSQL, or MongoDB to store and retrieve information.
* \*\*Front-end and Back-end Development\*\*: We had some experience with front-end technologies like HTML, CSS, and JavaScript, and back-end frameworks such as Node.js, Django, or Spring Boot.

## Limited Awareness of WIS-Specific Architectures

Before studying this subject, we were not fully aware of the architectural patterns specific to WIS, such as:

* \*\*Three-tier architecture\*\*: We had a vague understanding that web applications often separate the presentation layer, business logic, and data storage, but we did not explicitly associate this with WIS.
* \*\*Service-Oriented Architecture (SOA)\*\*: We knew that some web systems use APIs to communicate between services but were not familiar with its role in WIS.
* \*\*Content Management Systems (CMS)\*\*: We had heard of CMS platforms like WordPress and Drupal but did not consider them part of WIS architecture.

## Summary of Gaps in Knowledge

Before DP2, our knowledge of WIS architecture was fragmented and mostly focused on individual technologies rather than a holistic system. We lacked:

* A clear definition of WIS and its scope.
* Understanding of different architectural styles used in WIS.
* Awareness of best practices in designing scalable and secure WIS.

By studying this subject, we aim to gain a more structured and comprehensive understanding of WIS architecture, enabling us to design, implement, and optimize such systems effectively.