Team 1 – Quiz (Week Number: 10)

**Lecture Topic: Architectural Design**

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| **No** | **Quiz Questions** | **Student/Author Name** |
|  | List the system architect roles?  When to document an application architecture? | Daksh Rawat |
|  |  | Avni Mitawalkar |
|  |  | Nikita Jarile |
|  | What is Architecture?  What is Architectural Design?  What are the four Perspectives of Architectural Design? | Divya Kotapati |
|  |  | Sanket Koli |
|  |  | Sen Wang |
|  |  | Manoj Srinivasu |

List the system architect roles?

There are four essential skills for a System Architect:

1. **Liaison**: architects play a liaison role; they interface between the customers or clients of the application and the technical team, management, between the various engineering teams, other application teams, etc.
2. **Software Engineering:** excellent design skills are what get a software engineer to the position of Architect. Architects must promote good software engineering practices.
3. **Technology Knowledge**: architects have a deep understanding of the technology domains that are relevant to the types of applications they work on. They are influential in evaluating and choosing third party components and technologies.
4. **Risk Management:** good architects are constantly evaluating the risks associated with the design and technology choices they make.

When to document an application architecture?

* On new development projects, we perform architectural design at an early stage of the system design process.
* It represents the link between requirements engineering and design processes.
* It is often carried out in parallel with some requirements specification activities.
* The output of the architectural design process is an architectural model that represents a holistic view of the main system components.
* Late changes to the application architecture are very risky and can have a profound impact on the project schedule and go-live date.

**What is Architecture?**

The organizational structure of a system or component

**What is Architectural Design?**

The process of defining a collection of hardware and software components and their interfaces to establish the framework for the development of a computer system

**What are the four Perspectives of Architectural Design?**

The Four Perspectives of Architectural Design are:

* Types (purpose, stakeholder perspectives)
* Abstraction (levels of detail)
* Views (development, operational perspectives)
* Patterns (presentation styles)