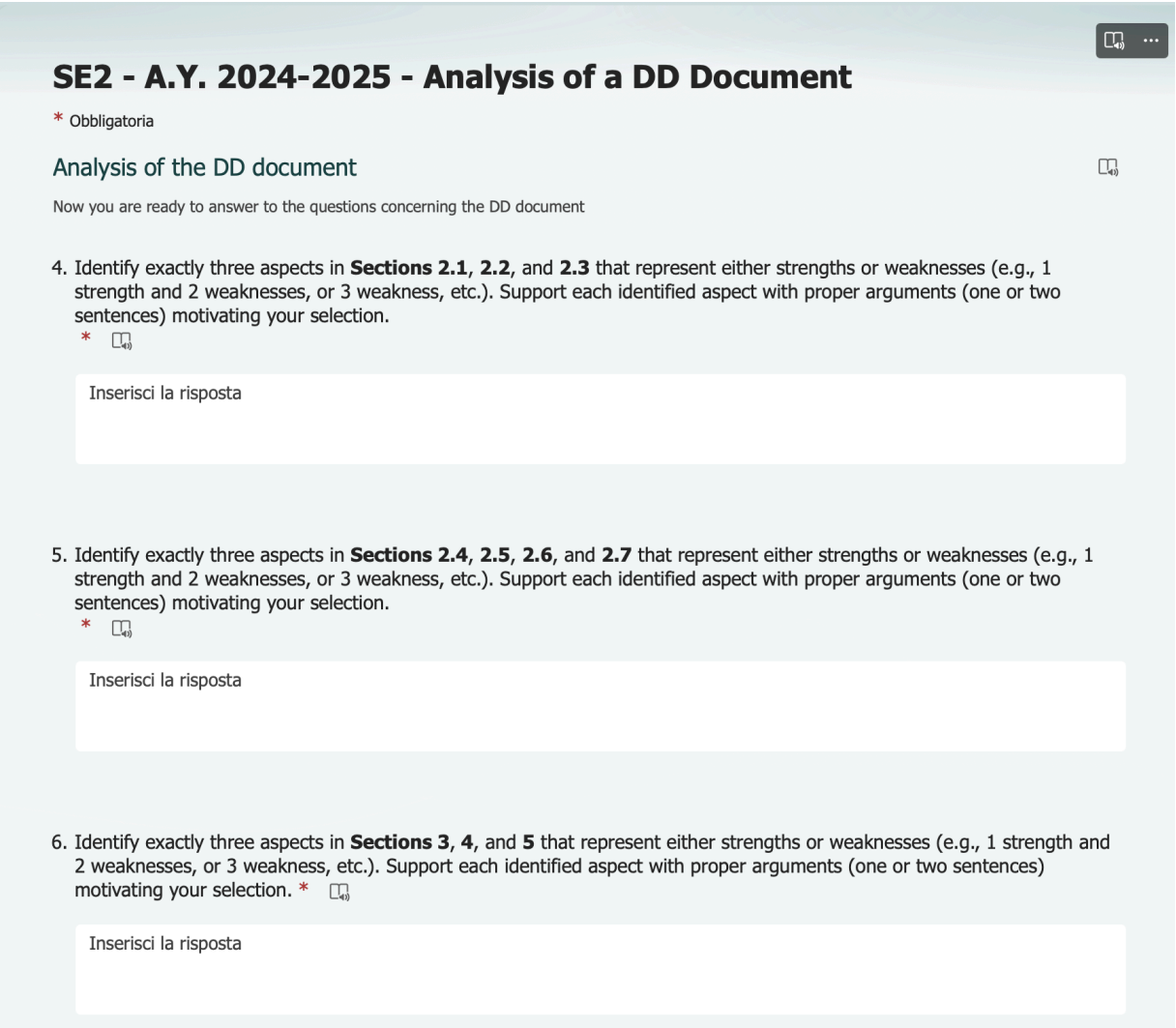
HomeWork 2



SE2 - A.Y. 2024-2025 - Analysis of a DD Document

* Obbligatoria

Analysis of the DD document

Now you are ready to answer to the questions concerning the DD document

4. Identify exactly three aspects in **Sections 2.1**, **2.2**, and **2.3** that represent either strengths or weaknesses (e.g., 1 strength and 2 weaknesses, or 3 weakness, etc.). Support each identified aspect with proper arguments (one or two sentences) motivating your selection.
*

Inserisci la risposta

5. Identify exactly three aspects in **Sections 2.4**, **2.5**, **2.6**, and **2.7** that represent either strengths or weaknesses (e.g., 1 strength and 2 weaknesses, or 3 weakness, etc.). Support each identified aspect with proper arguments (one or two sentences) motivating your selection.
*

Inserisci la risposta

6. Identify exactly three aspects in **Sections 3**, **4**, and **5** that represent either strengths or weaknesses (e.g., 1 strength and 2 weaknesses, or 3 weakness, etc.). Support each identified aspect with proper arguments (one or two sentences) motivating your selection. *

Inserisci la risposta

Toni & Simone:

Question 4. (Section 2.1, 2.2, 2.3)

1. **Strength**: Detailed description of architectural style
    a. Detailed and accurate description of the architectural style and structure, focusing on the scalability and maintainability of the whole platform. Great attention to details, including security aspects such as firewall and load balancer.
2. **Weakness**: Component diagram lacks depth of detail in subcomponents
    a. The component view diagram is complete but lacks depth of detail. Key components, such as CompetitionEvaluationManager and CompetitionStructureManager, are missing detailed descriptions, particularly around their subcomponents and internal interactions. In addition the diagram results a bit confusing.
3. **Weakness**: Deployment diagram is missing artifacts and DB schemas
    a. The deployment diagram is well-constructed, mapping software components to hardware. However, some deployed artifacts are missing, which leaves gaps in understanding the full deployment setup. Additionally, listing the database schemas would improve clarity by showing how data is organized. Including GitHub, even though it’s external, would also enhance the diagram, as it plays a crucial role in the system’s workflow and interactions.

Toni & Simone:

Question 5. (Section 2.4, 2.5, 2.6, 2.7)

1. **Strength**: Accurate runtime view, no omitted use cases
    a. The runtime view is accurate, precise, and detailed, effectively displaying all interactions between software components across various use cases and highlighting all different types of requests, with no omissions in use case coverage.
2. **Weakness**: Interface components too general lack signature and return types
    a. Section 2.5 of the component interfaces has a conceptual flaw: it does not define interface components signatures or specify return types. Additionally, the listed interface components are overly general, lacking the detail needed to convey specific responsibilities and interactions.
3. **Strength**:
    a. The platform is well-developed according to the chosen architectural style and design patterns. It effectively leverages the benefits of the three-tier architecture, with correct implementations of the MVC pattern as well as the facade pattern.

Valeria:

Question 6. (Sections 3, 4, 5)

1. **Weakness**: Lack of user interface design for specific features - Section 3
    a. The interface design includes only the initial login screen in detail, while other key functionalities are not thoroughly explored. Although references are made to interface components, the document does not provide detailed wireframes or mockups for critical interactions, such as battle creation or score visualization. This omission could lead to ambiguities in stakeholder expectations.
2. **Weakness**: Disorganized requirement listing - Section 4
    a. Grouping multiple requirements and components together reduces clarity, making it harder to determine what is associated with what. Additionally, the lack of a clear sequential order for requirements makes the section appear disorganized and more challenging to navigate. Moreover, there is no clear correspondence between Section 3 of the RASD and this section, which could hinder traceability.
3. **Strength**: Well-structured implementation plan - Section 5
    a. The implementation plan is very detailed and utilizes an effective approach. The hybrid approach, combining top-down and thread strategies, ensures that features are developed and tested as independent "threads," each corresponding to a specific functionality or a set of related features; and within each thread, simpler functionalities are implemented and tested first, followed by incremental additions of more complex features (top-down). This approach allows stakeholders to see progress early and at the same time ensures smoother component integration over time.