Decisions taken in the early phases of building design have major consequences regarding the performance of the resulting building. BIM (Building Information Modelling) is an important trend in the construction industry and will result in a significant modernization of the working procedures. DFG-FOR2363 research unit is devoted to the development of methods that allow the assessment of alternative building designs which are partly incomplete and vague. As part of the above mentioned research group, chair of Architectural Informatics (TUM) is responsible for visual exploration and supporting and documenting the design process and the decisions taken. The ultimate goal of which is to allow the transparent and grounded evaluation and assessment of building design variants in early design phases.

As part of the above mentioned research project, using the existing mock-ups a customizable and easy to understand dashboard needs to be developed. The dashboard’s ultimate goal is to enable the architect to assess and evaluate different design variants. The dashboard should be highly adaptable allowing the user to customize their frontend using predefined tools and templates. In a team of IDP-Students you will work on the full-stack of the web-application (frontend and backend).

**VEAV – Dashboard**

**Description:**
Decisions taken in the early phases of building design have major consequences regarding the performance of the resulting building. BIM (Building Information Modelling) is an important trend in the construction industry and will result in a significant modernization of the working procedures. DFG-FOR2363 research unit is devoted to the development of methods that allow the assessment of alternative building designs which are partly incomplete and vague. As part of the above mentioned research group, chair of Architectural Informatics (TUM) is responsible for visual exploration and supporting and documenting the design process and the decisions taken. The ultimate goal of which is to allow the transparent and grounded evaluation and assessment of building design variants in early design phases.

**Topic:**
As part of the above mentioned research project, using the existing mock-ups a customizable and easy to understand dashboard needs to be developed. The dashboard’s ultimate goal is to enable the architect to assess and evaluate different design variants. The dashboard should be highly adaptable allowing the user to customize their frontend using predefined tools and templates. In a team of IDP-Students you will work on the full-stack of the web-application (frontend and backend).

**Requirements:**
- Basics of JavaScript and web development
- Basics of REST APIs

**Project Information:**
https://for2363.blogs.ruhr-uni-bochum.de
https://www.ar.tum.de/en/ai/research/veav/

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