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| 1. **Name of the challenge***:*   Burza učebnic (Scholastic books exchange) |
| 1. **Context*:***   *“Scholastic books exchange” will be a portal aimed mainly at high schools, which will allow the exchange of books between students. This type of portal does not exist in the Czech Republic at this moment.*  *Target group: mainly high school students* |
| 1. **Problem:**   *There is a high school student (Frank) who has a problem that he has a lot of paper books at home. There is another high school student (Tony) who needs to buy a paper book for his subject but does not have much money. Tony wants to buy a book but does not know that Frank has the book he needs. As Frank and Tony do not know each other, Frank does not sell the book and Tony does not buy the wanted book. This problem will be solved by the portal called “Scholastic books exchange”.*   1. **Additional info (for internal use):**   *Expected delivery: project schedule, business model, business case, use cases, wireframes, technical description, test cases*  *Instruments: word, excel, MS project, analytical tools (EA), graphical tools* |
| 1. **Skills of the team (for internal use):**   Analytical skills, basic programming skills, knowledge of project management |
| 1. **About the Seeker:**  |  | | --- | | 5**. About the Seeker:**  Czech Technical University in Prague, Faculty of Information Technology, Department of Software engineering  Czech Technical University in Prague is one of the biggest and oldest technical universities in Europe.  CTU currently has eight faculties (Civil Engineering, Mechanical Engineering, Electrical Engineering, Nuclear Science and Physical Engineering, Architecture, Transportation Sciences, Biomedical Engineering, Information Technology) and about 21,000 students.  CTU´s Department of Software Engineering focuses on the theory and methodology of object-oriented programming, virtual machines, database systems, and formal methods and approaches to databases and software engineering. Current research areas include the construction of XML-native database engines and transaction processing, functional approach to XML data processing based on lambda calculus and type systems, and theoretical (in particular, category-based) approaches to the design of formal frameworks for database modelling. Other research interests include interpreters, debuggers and transformation systems as tools for software development. | |