|  |
| --- |
| 1. **Name of the challenge***:*   *Financial Detective* |
| 1. **Context*:***   *“Financial detective” will be an application for companies with more than 20 employees who use corporate credit cards. The application will allow connection with more bank accounts according to the new EU regulation regarding Open API Banking (year 2018). This application will find fraud very easily as there will be very sophisticated machine learning algorithms for fraud detection.* |
| 1. **Problem:**   *There are a lot of problems that cannot be solved as the bank dates are not available at the moment. Due to the possibility of Open API banking, new applications for P2P or B2B can be developed.*  *The “Financial detective” is one out of many applications that will use Open API Banking. This application will watch over the frauds.*  *Banks in the Czech Republic are interested in this application.*     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:**   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. |