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| amblem | **ÇANKAYA UNIVERSITY**  **Computer Engineering Department** **CENG 407 – 408 Project Proposal Form** |

This form should be used for CENG 407 – 408 Project Proposal.

**Part I. Project Proposer**

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| --- | --- | --- | --- |
| **Name Lastname** | **Sanberk Zülfikar** | **Mobile** | **5444327436** |
| **Signature** |  | **E-Mail** | **C1711402@student.cankaya.edu.tr** |

**Part II. Project Information. To be completed by the Proposer. (Supervisor, Student or Company)**

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| **Starting Term** | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 2 | 0 | 2 | 1 | / | 2 | 0 | 2 | 2 | | ▢ Fall | ▢ Spring |
| **Title of the Project** | Cryptocurrency Portfolio Tracker | | |
| **Project Description** | | | |
| Cryptocurrency technology is one of the most exciting technologies of today’s world. There are more than 10.000 different coins with different technologies and purposes, so we wanted to build an application that easy to use yet effective to provide keeping track of multiple cryptocurrency assets. System will be a web application that gathers data from the third-party price monitoring systems and our application will make the user owned coins and their amounts are trackable in real-time with many useful insights. | | | |
| **Project Justification** | | | |
| **Novelty** | | | |
| **Previous work** | You can see your owned assets’ worth on various trading platforms but options/features like total profits/losses and/or their percentage-like insights are most likely limited or non-existent. | | |
| **New aspects** | Our system will make easy to see what cryptocurrencies in your portfolio performed best/worst and how much profits/losses generally occurred. So, user can have a better crypto asset tracking experience. For each of their different coins. | | |
| **Complexity** | | | |
| **Challenging problem and issues** | The app needs to work in real-time, thus we need constant data flow from different sources. Also, we want our app to be easy to use yet effective. | | |
| **Related computer science fields and subfields** | Blockchain, cryptography, data science, data analytics, statistics | | |
| **References to existing solutions** (methods, algorithms) | Coinmarketcap | | |
| **Tools** | Python, Go, HTML, CSS, JavaScript, Visual Studio Code | | |
| **Libraries** | React, TypeScript, Angular | | |
| **Risk involved** | | | |
| **Potential problems and alternative solutions** | There is no risk involved. | | |
| **Minimum work required** | The app takes the data of the current prices for the users and creates and visualizes a general portfolio for the all time profits/losses. | | |
| **Evaluation** | | | |
| **Evaluation method**  (dataset, usability tests, metrics, etc.) |  | | |