

**Capstone Project 1**

**DEMARK - DECENTRALIZED MARKET**

Product Backlog document

Version: 1.1

CODE: DEMARK-1.0

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# **Project Information**

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| **Project acronym** | DEMARK | | | | |
| **Project Title** | DEMARK - Decentralized Market | | | | |
| **Start Date** | Aug 31, 2018 | **End Date** | | Dec 10, 2018 | |
| **Lead Institution** | International School, Duy Tan University | | | | |
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# **Proposal Document**

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| --- | --- | --- | --- |
| Document Title | Product Backlog Document | | |
| Reporting Period | September 10, 2018 | | |
| Team Information | Name | Role |  |
| Nhan Vo Hoang Quoc | Team member |  |
| Ha Truong Van | Product owner & team member |  |
| Dat Ngo Ha Van | Team member |  |
| Phuong Tran Nhat | Scrum master & Team member |  |
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| Access | Project and Duy Tan University Program | |  |

# **Document History**

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|  |  | Document History | |  |
| Version | Date | Comments | Performed by |  |
| V1.0 | September 10, 2018 | Draft of document | Phuong Tran Nhat |  |
| V1.1 | September 20, 2018 | Official document | Phuong Tran Nhat |  |

# **Document Approvals**

​The following signatures are required for approval of this document.

|  |  |  |
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| Man Nguyen Duc  *Mentor* |  | Date: |
| Ha Truong Van  *Product Owner* |  | Date: |
| Phuong Tran Nhat  *Scrum Master* |  | Date: |

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1. **Introduction**

The agile product backlog in Scrum is a prioritized features list, containing short descriptions of all functionality desired in the product. When applying Scrum, it’s not necessary to start a project with a lengthy, upfront effort to document all requirements. Typically, a Scrum team and its product owner begin by writing down everything they can think of for agile backlog prioritization. This agile product backlog is almost always more than enough for a first sprint. The Scrum product backlog is then allowed to grow and change as more is learned about the product and its clients.

* 1. **Purpose**
* Provide a prioritized features list, containing short description of all functionality desired in the product.
* Lists everything that the product owner and Scrum team feels should be included in the software they are developing.
  1. **Scope**
* Lists the user’s role.
* Write all the user’s requirements.
* Lists some main function of website.
* Short description of all the functionality desired in the product.
* Given the priority of each feature and function of the product.
  1. **References**

|  |  |  |
| --- | --- | --- |
| **No** | **Source** | **Note** |
| 1 | <http://agilebench.com/blog/the-product-backlog-for-agile-teams> | How to create product backlog |
| 2 | <http://www.mountaingoatsoftware.com/agile/scrum/product-backlog/example/> | Product Backlog Example |

1. **User stories**
   1. **User stories of student**

|  |  |
| --- | --- |
| Buy Token |  |
| As a student, I want to buy university token by using cryptocurrency. So that I can ensure safety and transparency | |

|  |  |
| --- | --- |
| Transfer |  |
| As a student I want to transfer my token to the other student. | |

|  |  |
| --- | --- |
| Withdraw |  |
| As a student, I want to withdraw cryptocurrency from the token that I have bought from the university, so that I can get back the money. | |

|  |  |
| --- | --- |
| View Wallet |  |
| As a student, I want to see the amount of all tokens I own | |

|  |  |
| --- | --- |
| View Token List |  |
| As a student, I want to see all tokens in the system | |

|  |  |
| --- | --- |
| View Token Detail |  |
| As a student, I want to see the detail information of token | |

|  |  |
| --- | --- |
| View Transaction detail |  |
| As a student, I want to see the detail information of transaction | |

* 1. **User stories of University Cashier**

|  |  |
| --- | --- |
| Deposit |  |
| As a university cashier, I want to deposit to token so that the reward budget is not missing | |

* 1. **User Stories of University Manager**

|  |  |
| --- | --- |
| Submit token |  |
| As a university manager I want to submit my university to the system | |

* 1. **User Stories of Demark Manager**

|  |  |
| --- | --- |
| Manage token |  |
| As a manager of Demark system, I want to manage all tokens on the system. | |

1. **Product Backlog Specification**

***Priority and Estimates***

Priorities are set from high (H), medium (M) and low (L)

◦ Priorities of some user stories can be the same with others

◦ If a user story has dependencies, it must have lower priority than its dependencies

**Table 1: *Product Backlog Specification (Student)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a <type of user>** | **I want to <perform some task>** | **so that I can <achieve some goal>** | **Priority**  **(H, M, L)** |
| 1 | Student | buy university token by using cryptocurrency | pay for my school fee | H |
| 2 | Student | Withdraw | get back the money from the tokens that I do not use | H |
| 3 | Student | transfer the tokens to the other students |  | H |
| 4 | Student | see all token on demark |  | M |
| 5 | Student | see token details | know any specific information about that token | M |
| 6 | Student | see transactions history of a token | track transactions history | M |
| 7 | Student | View wallet |  | M |

***Table 2: Product Backlog Specification (University Cashier)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a** *<type of user>* | **I want to** *<perform some task>* | **so that I can *<achieve some goal>*** | **Priority**  (H, M, L) |
| 8 | University Cashier | Deposit to the token | The reward budget will be not missing | H |

***Table 3: Product Backlog Specification (University Manager)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a** *<type of user>* | **I want to** *<perform some task>* | **so that I can *<achieve some goal>*** | **Priority**  (H, M, L) |
| 1 | University Manager | Submit for our university token | Publish the token to the system | M |

***Table 4: Product Backlog Specification (Demark Manager)***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **As a** *<type of user>* | **I want to** *<perform some task>* | **so that I can *<achieve some goal>*** | **Priority**  (H, M, L) |
| 1 | Demark Manager | manage the tokens that were published to the system |  | H |