

mintybay.io – Requirement's Specification

1. Functional Requirements

No	Requirement	Priority
1.1	The user is able to connect to the application with his metamask wallet.	1
1.2	The user is able to create a new NFT and list it on the marketplace for a self-defined market price.	1
1.3	The user is able to browse the marketplace and purchase any given item on the marketplace for the defined price.	1
1.4	The user is given an overview for all NFT's in his possession.	1
1.5	The user is able to re-sell previously purchased NFT's.	1
1.6	The user is able to browse the marketplace with the help of a search- and filter function.	2
1.7	NFT's can be purchased and sold by the user with an auction mechanism.	2
1.8	When creating a new NFT's, the user is able to define a royalty fee as a percentage of the selling market price.	2
1.9	The bidden Ether value in an auction can temporarily be staked in a liquidity pool until the auction is finished.	3 (opt.)

2. Non-Functional Requirements

No	Requirement	Priority
2.1	Usability: The application has to be intuitive in its usability (clean & simple design).	1
2.2	Usability: The application has to be responsive on mobile devices.	1
2.3	Maintainability: Automated unit & integration tests should cover all main use cases.	1
2.4	Maintainability/Efficiency: Smart Contracts should be lean in its functionality in order to reduce probability to be a source of errors. If possible, part of the logic should be implemented in the frontend.	1
2.5	Portability: The application can be delivered and ported as a docker-image.	3 (opt.)