
BTree

**BeeKey
Vision Document**

Version <1.1>

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Revision History

Date	Version	Description	Author
11/06/2021	1.0	Initial Draft	Chung Kim Khánh, Hoàng Như Thanh
25/05/2021	1.1	<ul style="list-style-type: none"> • Add admin, banking system to stakeholder • Update stakeholder and user summary • More detail for the diagram • Add more functional requirements: accept/decline counter-offer, chatting, logout, filter requirement, etc. • Remove redundant requirement: delete account, add account 	Đỗ Vương Phúc

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Vision (Small Project)

1. Introduction

1.1 Purpose

The purpose of this document is to define the high-level requirements of the freelance network application (BeeKey) app in terms of the needs of the end users.

1.2 Scope

This Vision Document applies to the connected clients and lancers offering programming services (BTree) app, which will be developed by BTree.

BTree app will enable businesses to find the quality part-time IT human resources. BTree app allows freelancers to take part-time jobs.

1.3 Definitions, Acronyms and Abbreviations

See Glossary document.

1.4 References

None

2. Positioning

a. Problem Statement

The problem of	<ul style="list-style-type: none"> Businesses are finding temporary but quality IT human resources is very difficult. Talented students at HCMUS who want to work part-time are looking for a potential online work environment.
affects	<ul style="list-style-type: none"> Business Lancers
the impact of which is	<ul style="list-style-type: none"> Businesses spend a lot of money and time on advertising to find employees. Students spend more time on finding an ideal part-time job.
a successful solution would be	<ul style="list-style-type: none"> Clients can find lancers who help build products with an ideal price. Lancers are provided with potential programming projects to work on and gain decent income.

b. Product Position Statement

For	Business, freelancer.
Who	Can find lancers or help build products with an ideal price, meanwhile, lancers are provided with potential programming projects to work on and gain decent income.
The (BeeKey)	Is an app on Android mobile phone.
That	Enable finding jobs or developers.
Unlike	Traditional recruitment.

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Our product	Working online easily through mobile phones.
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3. Stakeholder and User Descriptions

This section describes the users of the BeeKey application and other stakeholders.

a. Stakeholder Summary

Name	Description	Responsibilities
Developer team	BTree members	<ul style="list-style-type: none"> Ensures that the system will meet the needs of the users and provide the user-friendly interface. Ensures that there will be a market demand for the product's features.
Theory teacher	Dr. Nguyen Minh Huy	<ul style="list-style-type: none"> Monitors project progress.
BeeLancer (User)	Freelancer who needs jobs	<ul style="list-style-type: none"> Ensures that system provides the potential market for lancers.
Business (User)	Individuals who need to hire lancer to do jobs or software	<ul style="list-style-type: none"> Ensures that the system will meet the needs of businesses.
Banking system	The system provide accounting interface	<ul style="list-style-type: none"> Ensure that the system can do transaction anytime The interface must be secure and integrity
Administrator	The team handle and solve all the report from user	<ul style="list-style-type: none"> Ensure that the system provide the interfaces for the admin to view the report from users

b. User Summary

Name	Description	Responsibilities	Stakeholder
BeeLancer	Take and solve the request from the client, review or receive the review after finished a job	Captures details produces reports coordinates work	Self-represented
Business	Post project, review or receive the review after finished a job	Captures details produces reports coordinates work	Self-represented

c. User Environment

Businesses need to recruit programmers to do jobs or software in a short time. For example, making websites, making apps, small projects, etc. Requires good programmers with reasonable prices in accordance with the budget.

The freelancer community is a large community that requires a constant need for employment. They need a potential environment to train themselves as well as earn a good source of income.

Users are people who have smartphones. The Android operating system is very popular. BeeKey app will help users easily control the work.

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The initial release of BTree will be limited to Android phone users. Marketing of subsequent versions of operating systems to users of other operating systems phones (iOS) or computers (Windows, macOS) will be considered.

d. Summary of Key Stakeholder or User Needs

A representative sampling of freelancers and businesses completed a User Survey to determine the user problems with existing finding developers or jobs systems and to solicit user input on improvements. A summary of the survey results are listed below in order of relative importance from high to low:

Need	Priority	Concerns	Current Solution	Proposed Solutions
Pay easily	High	Require an international payment methods	Freelance network application apps and websites require users to have a Visa or Paypal for payment. Example is Fiverr	Users want more easy payment methods
Avatar setting	Low	No personalization	Many apps and websites don't have avatars to distinguish between users.	Add feature to set avatar

e. Alternatives and Competition

There are a lot of apps and websites for freelancers and businesses to choose from. For example Fiverr, V lance, FreelancerViet and so on. However, these apps and websites require fees to sign up for an account, transact via an international payment method, or be used on a computer. This problem makes it difficult for users without income like students. With a variety of payment methods, free account registration and a telephone exchange environment, BeeKey becomes very convenient and useful for users.

4. Product Overview

This section provides a high level view of the BeeKey application's capabilities, interfaces to an external banking system and system configurations. This section consists of two subsections, as follow:

- Product perspective
- Assumptions and dependencies

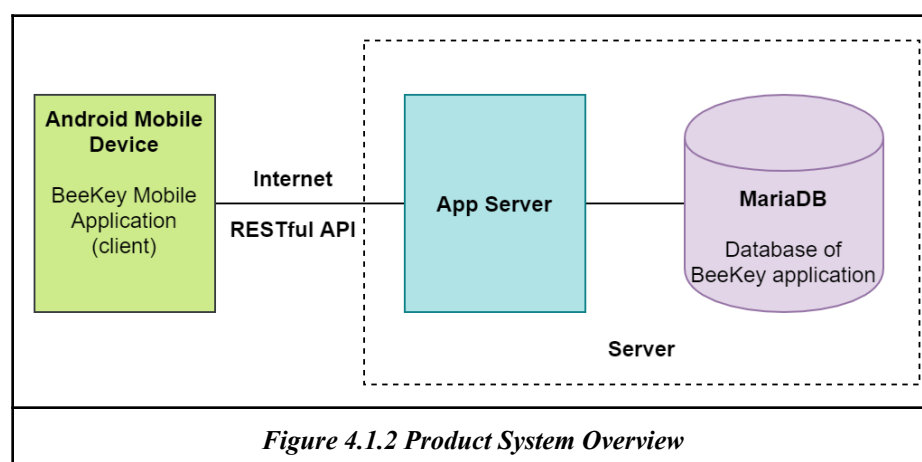
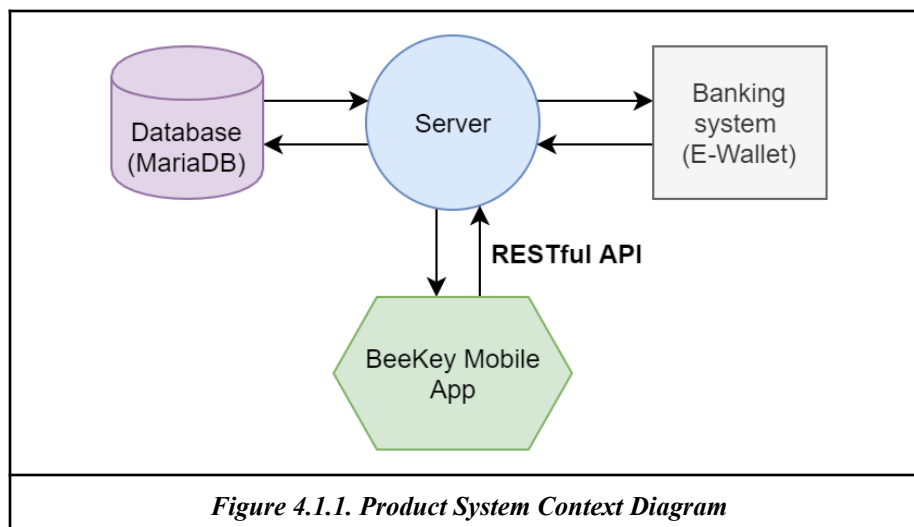
a. Product Perspective

The product system consists of the client component (an application) and server component. Application will interface with an existing banking system (E-Wallet) and database system (figure 4.1.1).

Server resides on a Raspberry Pi running Ubuntu and can be connected to via the internet. Data of the application resides on the database system (using MariaDB).

BeeKey mobile application resides on personal mobile devices running Android 7.0 - 11.0. BeeKey must be installed on the device, once installed, clients can get access to the application on their own device via the internet.

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b. Assumptions and Dependencies

The following assumptions and dependencies relate to the capabilities of the application as outlined in this Vision Document:

- It is assumed that server is active 24/7
- It is assumed that the latest Android version that the application is based on (Android 11.0) will be available to Android mobile devices for at least 3 years.
- It is assumed that E-Wallets that the application linked to are still existing for at least 3 years.
- It is assumed that the Raspberry Pi where the server resides is still active for at least 3 years.
- It is assumed that the server will not be altered.

5. Product Features

1. Sign-up

Users have to provide valid username and password (username is unique) to sign-up to the app. System shall ask about gender and phone-number too. Username cannot be changed after the initial on this step.

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2. Log-in

Users have to provide their accurate username and password to log-in.

3. Change password

Users will be asked to provide accurate last password and new password that they want to change top.

4. Show information

All account types have permission for this feature but on different levels. Users can view their own usernames, display names, and ratings. Users can view each other's information (username, display name, phone-number, gender, rating) since they are at the counter-offer step (description in 5.12 and 5.13).

5. Edit basic information

Users can edit their display name, avatar and bio anytime they want to.

6. Filter requirement

Users can view all the requirements uploaded. Moreover, users can filter the requirements with a specified category.

7. Post project

Users can post projects on which they want to hire lancers to work. They can attach files and images within their posts. Clients also have to mention the starting cost they are willing to pay for the project. Users can set a deadline for their uploaded project so that lancers can follow. They have to set a deadline as the time they post a project.

8. View list request

Users can view the list of requests they have uploaded.

9. View list task

Users can view the list of tasks they have taken.

10. View information of a specified request

After viewing the list of requests they uploaded, they can pick one request to view the detailed information.

11. View information of a specified task

After viewing the list of tasks they are taking, they can pick one task to view the detailed information.

12. Make counter-offer

Users can bargain for the salary they will be paid for a project if they think the starting cost is low. If the counter-offer is accepted, the project will be assigned to that user.

13. View all counter-offer

When a request is uploaded, it is in the pending status waiting for lancer to bargain. With a single request, many lancers can make the counter-offer. Users can view all the counter-offer of a request and decide to decline or accept a counter-offer.

14. Accept/decline counter-offer

While viewing the counter-offer list, the user can choose to decline or accept an offer. If the user accepts, the request changes to doing status.

15. Feedback

When the project is finished, clients can write feedback for the lancer of their project. The feedback will be displayed in the account information.

16. Chatting

For easier while doing the project, the client and lancer can communicate with each other through a chatting channel. And after finishing the project, the lancer will send a solution through the chatbox.

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17. Done a request

If the solution of lancer is satisfied, the client will click done on that request and finish the project.

18. Top-up

Users can top-up the money from the linked banking system.

19. Logout

Users can log out after using the application.

6. Non-Functional Requirements

- The application shall respond to users within 3 seconds.
- Users shall be kept logged-in if they do not hit the log-out button even when they exit the application.
- Users will be offered an option to remember username and password when they first log-in to the application.
- Users will be asked to ensure when they want to delete their account.
- If users uninstall the application then install it again, they will have to log-in again even if they did not log-out the last time.
- Each view must be loaded within 1 second on the stable network connection.
- The database must meet HIPAA requirements.