

POPCHAIN APP Product Design Specification

Version :	V1.0.2	No :	TH-TL-POP-05
Security level :	A+	Department/Project:	R&D Department
Product :	POPCHAIN APP Product design	Subsystem:	

About the book

Overview

- This book is the POPCHAIN APP product design specification of the blockchain project of the POPCHAIN Foundation-.
- POPCHAIN Foundation provides the hardware and software design and the implementation solutions for the project.
- POPCHAIN Foundation has the final right to modify and interpret this document and the program.

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I. Introduction

This document mainly defines the detailed description of the POPCHAIN version function and the content and the logic of each module of the front-end page.

1. Purpose

The purpose of this document is to clearly and hierarchically define the source of the content and associated logic for each module in the page prototype.

2. Scope

This document mainly describes the function in the POPCHAIN front-end page, the corresponding background management function support, partial interaction details, and the technical requirements involved and achieved. The main readers of this document are front-end engineers in the technical department, back-end engineers, and visual designers in the visual department.

II. User Role Description

User Role Description	User Description
Registered User	User has a registered POPCHAIN account
Unregistered User	User does not have a registered POPCHAIN account

III. Product Overview

POPCHAIN app is a mobile app for POPCHAIN mining and POPBOX device management, and supports Android and iOS mobile systems.

1. POPCHAIN Main Function Description

- 1) Login / Registration and Account Management
- 2) Device Information Display
- 3) Income and Withdrawal function
- 4) Device Binding and Unbinding
- 5) Basic System Settings

IV. Product feature

1. Account management

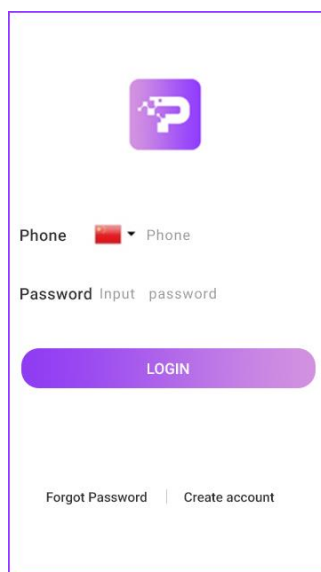
1) Registration / Login

i. Registratio

[Create account]

User Scenario	New users need to register for their own accounts
Function	Users register with their mobile phone numbers
Priority	High
Input / Pre-condition	Start APP/ the network is normal
Requirement	1. Mobile phone number 2. Phone verification code 3. Password 4. Password consistency
Output / Post-condition	Correct data / Back to the home page.
Note	Select the correct mobile phone number attribution area code

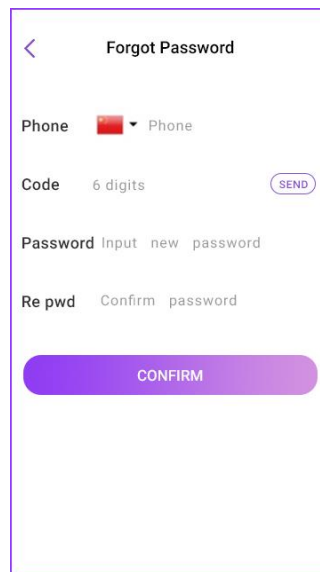
ii. Login

A login form with a purple border. At the top center is a purple square icon with a white 'P' and a small robot head. Below the icon is a 'Phone' label followed by a red flag icon and a dropdown arrow, and a 'Phone' input field. Below that is a 'Password' label followed by an 'Input' label and a 'password' input field. A large purple rounded button with the text 'LOGIN' is centered below the inputs. At the bottom, there are two links: 'Forgot Password' and 'Create account' separated by a vertical line.

[Login]

User scenario	The user logs on to the system after registration
Function	User login operation
Priority	High
Input / Pre-condition	Account registration is complete.
Requirement	1. Corresponding area code to the account's phone number 2. Phone number 3. Login password
Output / Post-condition	Password verification / The system's homepage

2) Forgot password

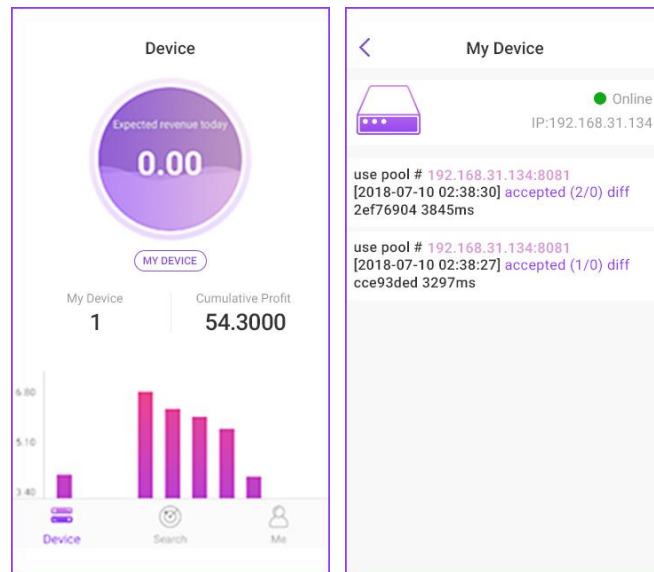


The image shows a mobile app screen titled "Forgot Password". At the top left is a back arrow. Below the title, there are four input fields: "Phone" with a red flag icon and a dropdown arrow, "Code" with a "6 digits" hint and a "SEND" button, "Password" with a "input new password" hint, and "Re pwd" with a "Confirm password" hint. At the bottom is a large purple "CONFIRM" button.

[Forgot Password]

User Scenario	Users who already have accounts, reset their passwords
Function	reset passwords
Priority	High
Input / precondition	Start APP, the network is normal
Requirement	1.The user has a registered account 2.Phone verification code 3.Password
Output / postcondition	The user with a registered account, resets the password

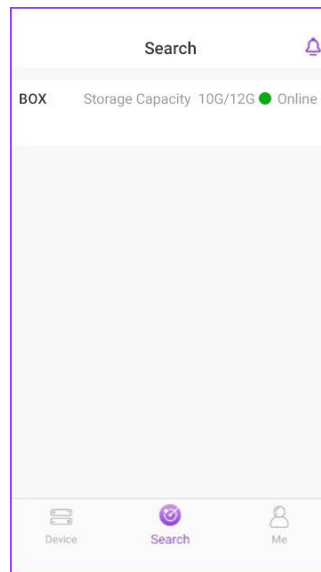
2. Device



[Device]

User Scenario	Device home data
Function	Display equipment information and revenue data
Priority	High
Input / Pre-condition	The user is logged on.
Requirement	<ol style="list-style-type: none"> 1. Display the number of devices that the user is bound to. 2. Display the daily expected revenue and accumulated revenue of the user. 3. Display user revenue history data. 4. Graphical display of the last 7 days of data. 5. Display user device information.

3. Search



[Search]

User Scenario	The device connected by the current user
Function	The device connected by the current user
Priority	High
Input / Pre-condition	
Requirement	
Output / Post-condition	User connects devices

4. Mine

1) Mining

i. Coin Withdrawal

The image displays two mobile application screens for the Coin Withdrawal process.

Left Screen (Coin Withdrawal Form):

- Header:** Coin, 54.3000 PCH
- Fields:**
 - address:** Input wallet address
 - Amount:** Input coins number
 - Password:** Input Password
 - Code:** 6 digits (with a SEND button)
- Action:** SUBMIT button

Right Screen (Password Setting):

- Header:** Password Setting
- Fields:**
 - Code:** 6 digits (with a SEND button)
 - Password:** Input password
 - Confirm Pd:** Input password again
- Action:** CONFIRM button

[Coin Withdrawal]

User Scenario	Users withdraw coins.
Function	
Priority	High
Input / precondition	Go to this page
Requirement	<ol style="list-style-type: none">1. Enter the withdrawal address2. Enter the amount of withdrawal3. Enter fund password4. Enter verification code
Output / Post-condition	The number of Coin is greater than 0, and the capital password is set

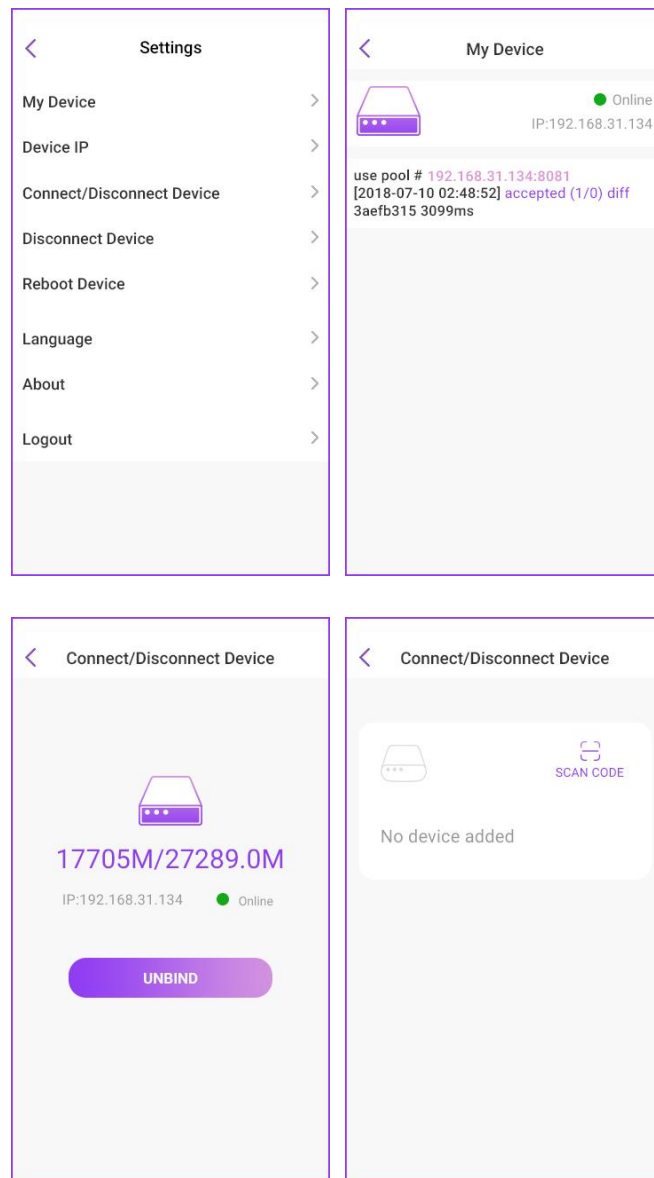
ii. Fund Password Settings

The screenshot shows a mobile app interface for setting a password. At the top, there's a purple header with a back arrow and the text 'Password Setting'. Below this, the 'Code' field is labeled '6 digits' and has a 'SEND' button. The 'Password' field is labeled 'Input password' and the 'Confirm Pd' field is labeled 'Input password again'. A large purple 'CONFIRM' button is positioned below the input fields.

[Password Setting]

User Scenario	Set fund password
Function	Set fund password
Priority	High
Input / precondition	
Requirement	
Output / postcondition	
Note	

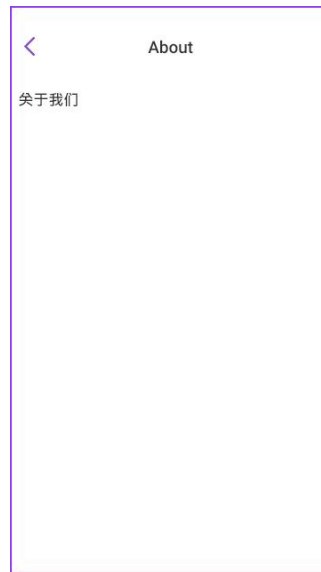
2) Settings



[Settings]

User scenario	System settings
Function	System settings
Priority	High
Input / precondition	
Requirement	
Output / postcondition	
Note	

3) About Us



[About Us]

User Scenario	View the version number of APP, or update the APP
Function	Provide APP version, copyright statement related information
Priority	Low
Input / Pre-condition	
Requirement	1. Display version number 2. Latest version detection function 3. Copyright can be added at the bottom (market needs)
Output / Post-condition	
Note	

V. Other Product Requirements

1. Compatibility Requirement.

Android 4.5 or above; iOS 8.0 or higher.

VI. Risk Analysis

Risk	Possibility	Severity	Strategy	Responsiveness

VII. Project Module Table

POPCHAIN APP	Front-end development	Login/Register	Register
			Login
			Forget password
			User protocol
		Find	Device information
		Device	Display device
			My device
			Display the revenue detail
		Mine	Device binding
			Device unbinding
			Withdraw coin
			Withdrawl record
			System information
			Detailed information
			Fund password setting

[Project Module Table]