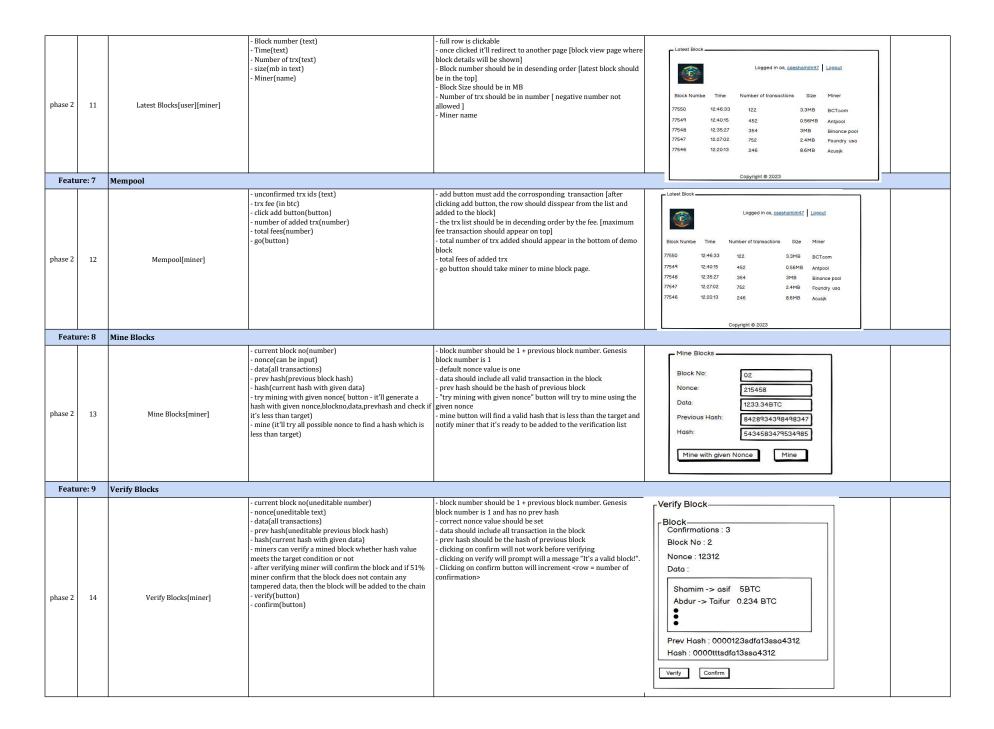
Product Requirement Document (PRD) - Version: 1.0

Template Name	Money Transfer system using Blockchain
Goals & Objective	We all transfer money. The goal of this website is to provide a secure and efficient platform for individuals and businesses to transfer money using blockchain technology. From this website user/miner can: - Send & Receive money with low cost transaction fee - Can see transparent ledger where all activity of transaction is shown - Can see block information - Miners can mine blocks - Miners can verify blocks - User/Miners can update their profile information
Client Information	
Product Type	Web Application
Domain	Web2
Access Layers	User, Miner
Design Required	Yes

Phase	Phase Item No Specification [Role]		User Story	Acceptance Criteria	UI Screen / Wireframe	Tags
Feat	ıre: 1	Auth Feature				
phase 1	1	Signup [Miner] [User]	- Enter Full name (input) - Enter unregistered email (input) - Enter password (input) [Logic: At least 8 characters long, atleast one special character] - Enter password again (input) [Logic: should match password input] - Choose user type [user,miner] - Click Signup (button) [Logic: If the email is unique, user will be registered to the sysmem (databse)] - Signin (link) [Logic: redirect user to Login page]	- Email (input) field should only accept valid unregistered email address as input, otherwise will show an 'email already used' message. - Password (input) should be minimum 8 characters long. Otherwise show an invalid message. - Re-password (input) should match password. Otherwise show 'password do not match' message. - User type must be selected. Otherwise show 'Please select a user type'. - On clicking signup button, credential will be stored in database, user will be redirected to his dashboard. - A copy of the login information will be sent to his email.	Signup Name: Email Password re-Password User type User O Miner Signup Sign in	signup
phase 1	2	Signin [Miner] [User]	- Enter Email (input) - Enter password (input) - signin (button) - signup (link) - forgot password (link)	- Email must match database email - password must match database password - User go to dashboard (if email & password match with database) - User is promt with an error. "Email or password does not match!". (if email & password match with database) - clicking signup should take user to signup page - clicking forgot password should take him to forgot password page	Signin Email Password Signin Sign up Forgot password?	signin

phase 1	3	Forgot password[Miner] [User]	- Enter email (input) - Press send code (button) - Enter new password (input) - Re-type new password (input) - click on change passowrd to update password (button)	- email must match DB email or promt "No email found!" - pressing send code will print a message "code sent!" and the code can be found at user info row enter new password [At least 8 characters long, atleast one special character] - re-type new password [it should match new password] - clicking submit button will show user -> "password changed" if all info match criteria or it'll indicate what's wrong	Change password Email Send code Code Password Re-Password Submit	forgot_password
Featu	ıre: 2	Dashboard				
phase 1	4	Menu [User]	- Dashboard(link) - Send money(link) - public ledger (link) - Latest Blocks (link) - View Profile(link) - Edit profile(link) - change profile photo(link) - change password(link)	- clicking dashboard will take user to dashboard page - go to send money page on click - go to public ledger on Click - go to Latest blocks page on click - go to view profile page on click - go to view profile page on click - go to edit profile page on Click - go to change profile page on Click - go to change profile page on Click - go to change password page on Click	User Menu Dashboard Send Money. Public Ledger Latest Blocks View Profile Edit Profile Change Profile Photo Change Password	Menu
phase 1	5	Menu[Miner]	- Dashboard(link) - Send money(link) - public ledger(link) - Latest blocks(link) - Mempool(link) - Wine Blocks(link) - Verify Blocks(link) - View Profile(link) - Edit profile(link) - change profile photo(link) - change password(link)	- clicking dashboard will take user to dashboard page - go to send money page on click - go to public ledger on Click - go to a common	Miner Menu Deshboard Send Money Public Ledger Lotest Blocks Memocal Mine Block Yerfly Blocks View Profile Edit Profile Chance Proseword	
phase 1	6	Dashboard [Miner] [User]	- Balance (text) - trx history(link) - public key (text) - private key(text) - bitcoin address(text)	- show appropiate Balance (should not be less than 0) - clicking trx history link will take user to trx history page - public key is shown - private key is only shown when clicked - bitcoin address is shown	Dashboard Welcome, Shamim Balance : 123BTC View Trx History pub key : 112sadfa private key : Click to view Bitcoin Address : 123adfzxaefd	
Featu	ıre: 3	Top bar and Bottom Bar				

phase 1	7	Top bar Bottom Bar	- clicking on logo will take user to dashboard - clicking on logout will logout user - clicking on username will take him to profile page	- logout should erase cookie and user should not be able to go to dashboard without login again none	Logged in as, Caeshamin47 Logout Bottom bar Copyright © 2023
Featu	ıre: 4	Send Money			
phase 2	9	Send Money[user][miner]	- Enter receipient address (input) - enter amount (input) - re-type amount (input) - click sign with private key(button) - write anything in message (input) - click submit(button)	- User must enter valid receipient address [otherwise prompt an error] - User must enter amount in valid format [negative, 0 or any charater is not allowed. Only numerics starting > 0 is allowed. The amount must be less than or equals to user's current balance] - User must re-type same amount previously mentioned - User must click sign with private key [otherwise promt an error] - User can write anything in the message box if they want - User have to click submit button after everything is set properly [clicking submit will add the transaction to the mempool]	*Amount:
Featu	ıre: 5	Public Ledger			
phase 2	10	Public Ledger[user][miner]	- User can see transactions id, time and transaction amount - User can click on any row to see the details of the transaction [redirect to transaction details page]	- Transaction id, time and transaction amount should be in the list - clicking on any row must redirect transaction details page	Logged in as, cseshamim47 Logout
Featu	ıre: 6	Block			



Photos number of sare (view) - the following of sare (view) - date of birth botod be in a test 15 years - date of birth bot					
- can edit phone - can edit date of birth - can edit gonder - can edit date of birth - can edit gonder - can edit gonder - can edit content of the can edit gonder - can elt gonder - can edit gonder - can elt gonder - can el	phase 1 15	View Profile[miner][user]	- phone number of user (view) - date of birth of user (view) - gender of user (view) - user type (miner/user)		Name: Md Shamim Ahmed Email: xys@gmail.com Phone: 012312 Date of Birth: 01-01-1999 gender: Male User Type: Miner
- user can choose new photo from device - after choosing new photo, user can confirm by pressing confirm button - input file should be an image and not any other format [png,jpg format] - cofirm button should redirect user to view profile page - input file should be an image and not any other format [png,jpg format] - cofirm button should redirect user to view profile page - the profile Photo[miner] [user] - Change Profile Photo[miner] [user] - Change Profile Photo[miner] [user]	phase 1 16	Edit Profile[miner][user]	- can edit email - can edit phone - can edit date of birth - can edit gender	- email should be in correct format [xyz@abc.com] - phone number should be in correct format [11 digits] - date of birth should be in at least 15 years - clicking save button will either promt with an error if above rules do not meet or a promt notifying the user about successful	Name: Md Shamim Ahmed Email: xys@gmail.com Phone: 012312 Date of Birth:
	phase 1 17	Change Profile Photo[miner][user]	- user can choose new photo from device - after choosing new photo, user can confirm by pressing	- input file should be an image and not any other format [png,jpg format]	+ Choose File
- type current password - type new password - type new password - type new password again - type new password - type new password again - Password (input) should be minimum 8 characters long. Otherwise show an invalid message Re-password (input) should match password. Otherwise show 'password do not match' message On clicking signup button, credential will be stored in database, user will be prompted with a message. [sucessfully changed / something went wrong] - Vaseword - Change Password - Change Password - Current Password * Password: * Re-type password: - Re-password: - Password: - Re-type p	phase 1 18	Change Password[miner][user]	- type new password	password] - Password (input) should be minimum 8 characters long. Otherwise show an invalid message. - Re-password (input) should match password. Otherwise show password do not match' message. - On clicking signup button, credential will be stored in database, user will be prompted with a message. [sucessfully changed /	Current Password * Password:
Change	Feature: 11	Transaction details			

phase 3	19	Transaction Details[miner][user]	- user can see unique hash id - user can see trx status(pending/confirmed) - user can see the amount - user can see fee - user can see from where the money coming - user can see to where the money is going - user can click 'More' to see more about this transaction	- hash id must be unque - trx status must be set - amount should be number and positive value - fee should be a number - the address of sender must be shown - the address of receiver is also shown - clickable link to more details about this transaction	Transaction details Logged in as, <u>cseshamim47</u> <u>Logout</u> Hash id → 54dge24Fh56 status → pending Amount → 542BTC Fee → 10BTC From → dfk452R5djg To → 5dfh2f5r2125 more Copyright © 2023
phase 3	20	More[miner][user]	- user can see unique hash id - user can see trx status(pending/confirmed) - user can see the amount - user can see fee - user can see from where the money coming - user can see to where the money is going - trx Time is shown - age of the trx is shown - input and input vlaue is shown - output and output value is shown - fee is shown - size of the trx also can be seen	- hash id must be unque - trx status must be set - amount should be number and positive value - fee should be a number - the address of sender must be shown - trx time : when the trx happened is set to see - age = current time - trx time - input (integer number) & input value(decimal) - output (integer number) & output value(decimal) - fee must be set - size of trx in bytes	Transaction details Logged in as, casehonims? Logad Hosh is → \$4dge24Fib66 stoke → pending Amount → \$4287C Fre → 1087C From → 4d482Fi56ig To → 56m5156255 Time → 122492 Age → 6 minute Input value → 1087C Codgut → 2.87C Copyright © 2023
Featu	re: 12	Block details			
phase 3	21	Bitcoin Block[miner][user]	- Block number - miner name - block BTC(sum of all trx) - value(BTC in dollar) - more(link)	Everything should be valid & verified	Block details Logged in ox, saeshornind2 Lookud Block Number : 2 Miner : allox_4b BTC : 0.38 Volue : 60 BTC More Copyright © 2023
phase 3	22	More[miner][user]	- Block number - miner name - block BTC(sum of all trx) - value(BTC in dollar) - distance(mins since mined) - depth(number of blocks that have been added after this block+1) - trx(number of transactions) - input(number of inputs) - output(number of outputs) - fees(total fees generated to verify all transaction) - Reward(block reward. currently 6.5 btc) - Nonce(number) - size (mb)	Everything should be valid & verified	Block Number: 2 Block Number: 2 Miner: allox_4b BTC: 0.38 Fees: 42 BTC Volue: 60 BTC Distance: 4 minutes Nonce: 263 depth: 3 tzr: 4445215 Size: 0.3 MB input: 2 confirmations: - skey Copyright © 2023
_	re: 13	Notification	1 Size (IIII)		

			- Users can receive alerts when a transaction is confirmed	-Notifications should be relevant and provide users with valuable	Notifications	0
			or when they receive funds.	information related to their account, transactions, or the broader cryptocurrency market.	You have just sent 0.5 BTC to John Doe. Transaction ID: 1234567890	
				-Notifications should be accurate and provide correct information.		John Doe: Iransaction ID: 1234567840 000 per coin. Don't miss out on this opportunity to buy or sell!
			threshold Users can receive alerts when there is unusual activity	Any errors or discrepancies should be promptly corrected.	85 05 C. M. N. S. W.	ed from a new device. Please verifyyour identity to ensure your account securit
phase 3	23	View all notification	on their account, or when they need to take action to			n Jane Smith. Transaction ID: 0987654321
•			secure their account.			
Featu	re: 14	Fllowed User				
			- All the followed user should visible over here.	- All the followed user should visible over here if user follow them.	Followed Users	Profile Link
					CryptoKing23	https://cryptosite.com/user/CryptoKing23
					BitTrader87	https://cryptosite.com/user/BitTrader87
.12	24	M. All E. II I H			DigitalInvestor12	https://cryptosite.com/user/DigitalInvestor12
phase 3	24	View All Followed User			CoinHoarder99	https://cryptosite.com/user/CoinHoarder99
					BlockchainEnthusiast	https://cryptosite.com/user/BlockchainEnthusiast
Featu	re: 15	Legal Agreement Feature				
phase 3	25	View Terms and Condition	of the terms and conditions before agreeing to them. Asserting the terms Learn term does do not not consider the terms Learn term does do not not not consider the terms Learn term does do not not not not consider the terms Learn term does do not not not not not not not not not no		The control of the co	
Featu	re: 16	Transaction History				
phase 3	26	Transaction History	-Select Date for the time period you want to see -type current password to verify	-user's can input the time period - user can type current password to make changes [it should match database password] - Password (input) should be minimum 8 characters long. Otherwise show an invalid message On clicking last five transaction it will show the recent 5 transactions - On clicking Transactions show the transactions of the time period - On clicking download statement all transactions will be written in a text file	Fro ser 2 H	Logged in os, <u>cseshamim47</u> Logget m : Jane Smith To : JOhn Doe at Amount : 0.01 BTC Recived Amount : 0.02 BTC lours ago Yesterday tus : Confirmed Status : Confirmed Copyright © 2023
					-About	Money Transaction Using Blockchain () Developers: MD Shamim Ahmed Mahfuzur Rahman Ferdous Rabbi Hossen Taifur Mohammad Tanim About;

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