

*DecentraBank*

*Technical Description Documentation*

*This document is a property of Mindfire Solutions and contains some confidential information and hence no part of this document should be distributed or copied elsewhere without permission of PL/TL/AL. This document is for internal purpose only.*

## Change Log

#	Description	Author	Date
1	TDD version -1	Wasif Jamal	January 13, 2022
2			
3			
4			

## **Table of Contents**

1. Overview	4
2. Project Description	4
3. Project Details	5
4. Tools and Technologies	6
5. Architecture Diagram	7

## **1. Overview**

This is a decentralized application for lending and borrowing. It is a solidity smart contract that allows users to deposit DAI tokens to the pool and earn interest. A borrower can get a loan in DAI tokens by depositing a slightly higher value of Ether as collateral. They will payback the loan amount with interest and collateral will be refunded to them,

### **Milestone 1:**

- a) Solidity smart contract

### **Milestone 2:**

- a) Front-end for the application

## **2. Project Description**

The aim of this platform is to help the users to get loan at fixed interest rate , this platform has 2 roles , the first is lender , the lender can deposit DAI(stablecoin) in pool and earn interest , whereas the other role is borrower who can borrow required DAI from the pool by keeping something of same or higher value as collateral as crypto and pay back the borrowed amount with interest in desired amount of time provided to him.

### 3. Project Details

Following are some general and technical details of the project:

#### GENERAL

**Client Name** : Internal

**Project Start Date** : January 10, 2022

**No. of Resources** : 2

**Project Type**: Decentralized Application

#### TECHNICAL

**Technology** : Blockchain

**Platform** : NA

**IDE** : VS Code

**Development Env.** :

**Hosting Env** :

**Browser Support** : All

#### REPOSITORY

**Type** : GitLab

**URL** : <https://gitlab.mindfire.co.in/sunnys/lendandborrow/-/tree/develop>

**Credentials** : Available with admin/individual developer account

## **4. Tools and Technologies**

- a) Solidity
- b) Truffle
- c) NodeJS
- d) React
- e) Bootstrap
- f) Slither
- g) Mocha

## 5. Architecture Diagram

### Milestone 1

