

DAFTAR ISI

Hlm.

ABSTRAK	<i>i</i>
<i>ABSTRACT</i>	<i>iv</i>
KATA PENGANTAR	<i>v</i>
DAFTAR ISI.....	<i>vii</i>
DAFTAR GAMBAR	<i>ix</i>
DAFTAR TABEL.....	<i>x</i>
BAB I PENDAHULUAN.....	<i>I</i>
1.1 Latar Belakang	1
1.2 Rumusan Masalah	3
1.3 Tujuan Penelitian	3
1.4 Batasan Penelitian	4
1.5 Manfaat Penelitian	4
1.6 Kerangka Pemikiran Penelitian.....	5
1.7 Sistematika Penulisan.....	6
BAB II KAJIAN LITERATUR.....	7
2.1 <i>State of the Art</i>	7
2.2 Landasan Teori.....	13
2.2.1 <i>Distributed Computing</i>	13
2.2.2 <i>Blockchain</i>	14
2.2.3 <i>InterPlanetary File System (IPFS)</i>	17
2.2.4 <i>Decentralized Science</i>	18
2.2.5 <i>Prototyping Model</i>	19
BAB III METODOLOGI PENELITIAN.....	21
3.1 <i>Requirement Gathering & Analysis</i>	22
3.1.1 <i>Problem Identification</i>	22
3.1.2 <i>Proposed Solution</i>	22
3.1.3 <i>Requirement Gathering</i>	22
3.2 <i>Quick Design</i>	22
3.2.1 <i>Architecture System</i>	23
3.2.2 <i>Use Case Diagram</i>	23

3.2.3 <i>Activity Diagram</i>	23
3.2.4 <i>Sequence Diagram</i>	24
3.2.5 <i>UI UX Plan</i>	24
3.3 <i>Build a Prototype</i>	24
3.3.1 <i>Implementation System</i>	24
3.3.2 <i>IPFS Integration</i>	24
3.3.3. <i>Smart Contract Integration</i>	25
3.3.4 <i>Blockchain Integration</i>	25
3.4 <i>Refining Prototype</i>	25
3.5 <i>Implement Product and Maintain</i>	25
BAB IV HASIL DAN PEMBAHASAN	26
4.1 Hasil	26
4.1.1 <i>Requirement Gathering & Analysis</i>	26
4.1.2 <i>Quick Design</i>	27
4.1.3 <i>Build a Prototype</i>	38
4.1.4 <i>Refining Prototype</i>	49
4.1.5 <i>Implement Product and Maintain</i>	53
4.2 Pembahasan.....	54
4.2.1 Pembahasan Rumusan Masalah	54
4.2.2 Pembahasan Pengembangan	54
4.2.3 Pembahasan <i>Blockchain</i>	57
4.2.4 Pembahasan Perbandingan Dengan <i>Blockchain</i> Lain	58
4.2.5 Pembahasan Perbandingan Metode Penyimpanan File.....	61
BAB V SIMPULAN DAN SARAN	64
5.1 Simpulan	64
5.2 Saran.....	65
DAFTAR PUSTAKA	66
LAMPIRAN	69