

DAFTAR ISI

ABSTRAK	ii
ABSTRACT	iii
LEMBAR PENGESAHAN	iv
LEMBAR PERNYATAAN ORISINALITAS	v
Kata Pengantar	vi
Daftar Isi.....	vii
Daftar Gambar.....	xi
Daftar Table	xiii
Daftar Lampiran	xv
Daftar Istilah.....	xvi
Bab I PENDAHULUAN	1
I.1 Latar Belakang	1
I.2 Perumusan Masalah.....	3
I.3 Tujuan Penelitian.....	3
I.4 Batasan Penelitian	4
I.5 Manfaat Penelitian.....	4
I.6 Sistematika Penulisan.....	4
Bab II TINJAUAN PUSTAKA.....	6
II.1 Pengertian <i>Performance Management</i>	6
II.2 Pengertian <i>Balanced Scorecard</i>	8
II.2.1 Perspektif <i>Balanced Scorecard</i>	9
II.2.2 Perspektif <i>Financial</i>	10
II.2.3 Perspektif <i>Customer</i>	10
II.2.4 Perspektif <i>Internal Business Process</i>	11

II.2.5	Perspektif Learn and Growth	11
II.3	Perbandingan Balanced Scorecard	12
II.4	Agile Software Development (ASD)	13
II.4.1	Scrum Framework	15
II.4.2	Extreme Programming	17
II.5	Data Flow Diagram	20
II.6	<i>Unified Modelling Language (UML)</i>	21
II.7	<i>Microservices Architecture</i>	23
II.8	REST API.....	24
II.9	Bahasa Programan dan <i>Framework</i>	24
II.9.1	Javascript.....	24
II.9.2	Node JS (Javascript <i>Runtime</i>)	24
II.10	MySQL	25
II.11	Postman.....	25
II.12	<i>Black-Box Testing</i>	25
II.13	State of Art.....	27
Bab III	Metodologi Penelitian.....	31
III.1	Pengembangan Model Konseptual	31
III.2	Sistematika Penyelesaian Masalah	32
III.3	Alasan Pemilihan Metode.....	33
III.4	Pengumpulan Data	33
III.5	Proses Pengembangan Perangkat Lunak	34
Bab IV	Analisis dan Perancangan	36
IV.1	Analisis	36
IV.1.1	Analisis Masalah	36
IV.1.2	Analisis Solusi.....	37

IV.1.3	Scrum Team	42
IV.1.4	Product Backlog	42
IV.1.5	Sprint backlog item	44
IV.2	Perancangan Sistem.....	46
IV.2.1	Kebutuhan Fungsional	46
IV.2.2	Use Case Diagram.....	46
IV.2.3	Use Case Scenario.....	48
IV.2.4	Arsitektur Aplikasi	53
IV.2.5	Entity Relationship Diagram (ERD)	55
IV.2.6	Data Flow Diagram	56
IV.2.7	Activity Diagram.....	57
IV.2.8	Sequence Diagram	67
IV.2.9	Perancangan REST API	78
Bab V	Implementasi dan Pengujian	100
V.1	Hasil Implementasi <i>Scrum Framework</i>	100
V.1.1	Sprint Review	100
V.1.2	Sprint Retrospective	101
V.2	Hasil Implementasi REST API.....	102
V.2.1	<i>Create Group</i>	102
V.2.2	<i>Update Group</i>	103
V.2.3	List Group	103
V.2.4	Detail Group.....	105
V.2.5	Delete Group	106
V.2.6	Create Sub-Group.....	106
V.2.7	Add Member Group	107
V.2.8	Update member role	108

V.2.9	<i>Create Target</i>	108
V.2.10	List Target	109
V.2.11	Detail Target.....	110
V.2.12	Update Target.....	111
V.3	Pengujian REST API.....	112
V.4	Pengujian Aplikasi	118
Bab VI	Kesimpulan dan Saran	121
VI.1	Kesimpulan.....	121
VI.2	Saran	122
Daftar Pustaka		123
Lampiran		126