**Daftar Isi**

Halaman Depan ....................................................................................................i

Halaman Persetujuan ...........................................................................................ii

Daftar Isi ..............................................................................................................iii

Daftar Gambar ......................................................................................................v

Daftar Tabel .........................................................................................................vi

BAB I Pendahuluan .............................................................................................1

1.1. Latar Belakang Masalah ......................................................................1

1.2. Rumusan Masalah ...............................................................................2

1.3. Ruang Lingkup ....................................................................................2

1.4. Tujuan Penelitian .................................................................................3

1.5. Manfaat Penelitian ...............................................................................3

BAB II Tinjauan Pustaka dan Dasar Teori ...........................................................4

2.1. Tinjauan Pustaka ..................................................................................4

2.2. Dasar Teori ...........................................................................................7

2.2.1. UKM Informatika & Komputer................................................7

2.2.2. Android ....................................................................................7

2.2.3. Firebase ....................................................................................8

2.2.4. Firebase Authentication ...........................................................8

2.2.5. Firebase Cloud Messaging .......................................................9

2.2.6. Firebase Realtime Database .....................................................9

BAB III Metode Penelitian ...................................................................................11

3.1. Bahan / Data .........................................................................................11

3.1.1. Kebutuhan Input .......................................................................11

3.1.2. Kebutuhan Output ....................................................................11

3.2. Peralatan ...............................................................................................11

3.2.1. Kebutuhan Perangkat Lunak ....................................................11

3.2.2. Kebutuhan Perangkat Keras .....................................................12

3.3. Perancangan Sistem ..............................................................................12

3.3.1. Arsitektur Sistem ......................................................................12

3.3.2. Use Case Diagram ....................................................................13

3.3.3. Sequence Diagram ....................................................................14

3.3.4. Activity Diagram ......................................................................17

3.3.5. Class Diagram ..........................................................................20

3.3.6. Perancangan Antarmuka ..........................................................21

Daftar Pustaka .......................................................................................................25