**TUGAS BESAR REKAYASA PERANGKAT LUNAK II**

**APLIKASI MOBILE**

**APLIKASI INFORMASI KEHILANGAN**

**DAN MENEMUKAN BARANG**

**“HOPE FIND”**



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**PROGRAM STUDI TEKNIK INFORMATIKA**

**FAKULTAS TEKNIK DAN ILMU KOMPUTER**

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1. **Spesifikasi Kebutuhan Perangkat Lunak**

**User Requirement**

|  |  |
| --- | --- |
| Kode Kebutuhan | Isi Kebutuhan |
| SKPL-NF-001 | Sistem dipakai oleh lebih dari 1 orang |
| SKPL-F-001 | Sistem dapat melakukan login |
| SKPL-F-002 | Sistem dapat mengelola data kehilangan barang |
| SKPL-F-003 | Sistem dapat mengelola data menemukan barang |
| SKPL-F-004 | Sistem dapat mengelola data member |
| SKPL-F-005 | Sistem dapat mengelola pesan |
| SKPL-F-006 | Sistem dapat mengelola data penyalahgunaan |
| SKPL-F-007 | Sistem dapat menampilkan halaman utama |
| SKPL-F-008 | Sistem dapat melakukan pendaftran baru |

**Sistem Requirement**

|  |  |
| --- | --- |
| Kode Kebutuhan | Isi Kebutuhan |
| SKPL-NF-001-1 | Sistem yang dibangun berbasis aplikasi mobile |
| SKPL-F-001-1 | User melakukan login dengan menggunakan username dan password |
| SKPL-F-001-2 | Password dienkripsi |
| SKPL-F-002-1 | Sistem dapat melakukan tambah data kehilangan barang |
| SKPL-F-002-2 | Sistem dapat melakukan ubah data kehilangan barang |
| SKPL-F-002-3 | Sistem dapat melakukan hapus data kehilangan barang |
| SKPL-F-002-4 | Sistem dapat melakukan cari data kehilangan barang |
| SKPL-F-003-1 | Sistem dapat melakukan tambah data menemukan barang |
| SKPL-F-003-2 | Sistem dapat melakukan ubah data menemukan barang |
| SKPL-F-003-3 | Sistem dapat melakukan hapus data menemukan barang |
| SKPL-F-003-4 | Sistem dapat melakukan cari data menemukan barang |
| SKPL-F-004-1 | Sistem dapat melakukan tambah data member |
| SKPL-F-004-2 | Sistem dapat melakukan ubah data member |
| SKPL-F-004-3 | Sistem dapat melakukan hapus data member |
| SKPL-F-004-4 | Sistem dapat melakukan cari data member |
| SKPL-F-005-1 | Sistem dapat melakukan kirim pesan |
| SKPL-F-005-2 | Sistem dapat melakukan balas pesan |
| SKPL-F-005-3 | Sistem dapat melakukan hapus pesan |
| SKPL-F-006-1 | Sistem dapat melakukan tambah data penyalahgunaan |
| SKPL-F-006-2 | Sistem dapat melakukan hapus data penyalahgunaan |
| SKPL-F-006-3 | Sistem dapat melakukan cari data penyalahgunaan |
| SKPL-NF-002 | Keamanan data user |
| SKPL-NF-003 | Desain aplikasi tidak membingungkan end user |
| SKPL-NF-004 | Admin harus mempunyai kelebihan dalam mengatasi maintenance |

1. Use Case Diagram



Gambar 1 Use case diagram android



Gambar 1 Use Case diagram Web Service

1. **Use Case Skenario**
2. **Registration**

|  |  |  |
| --- | --- | --- |
| Use case name | Registration | |
| Related Requirements | SKPL-F-008 | |
| Goal In Context | User akan membuat member baru yang sudah di verifikasi | |
| Preconditions | Sistem menampilkan halaman terbatas sebagai pengunjung biasa | |
| Successful End Condition | Sistem akan menampilkan pesan informasi “registrasi berhasil silahkan cek email untuk aktifasi” | |
| Failed End Condition | Sistem akan menampilkan pesan error “registrasi gagal” | |
| Sistem akan menampilkan pesan informasi “ Acount Belum diverifikasi” | |
| Primary Actors | User | |
| Secondary Actors | Email user, Web Service | |
| Trigger | Sistem membuatkan akun member baru | |
| Include Cases | **Verifikasi Email, Request add new member** | |
| Main Flow | Step | Action |
|  | 1 | Pengunjung mengisi form pendaftaran |
| 2 | Memverifikasi rincian data pengunjung |
| 3  **Include :: request add new member** | Mengirimkan data ke Web service |
| 4 | Member baru sudah dibuat |
| 5  **Include :: Verifikasi Email** | Rincian dan verifikasi email sudah dikirim ke email |
| 6 | Melakukan aktifasi member baru |
| 8 | Member baru sudah di aktifasi |
| Extensions | 3.1 | Verifikasi member gagal dikirim |
|  | 6.1 | Member baru belum di aktifasi |

1. **Search By Category**

|  |  |  |
| --- | --- | --- |
| Use case name | Search By Category | |
| Related Requirements | SKPL-F-002-4  SKPL-F-003-4 | |
| Goal In Context | User mencari content berdasarkan kategori | |
| Preconditions | Sistem menampilkan content yang belum dicari berdasarkan kategori | |
| Successful End Condition | Sistem menampilkan content yang sudah dicari berdasarkan kategori | |
| Failed End Condition | Sistem akan menampilkan pesan informasi”content yang anda cari tidak ditemukan” | |
| Primary Actors | User | |
| Secondary Actors | Web Service | |
| Trigger | Sistem membuatkan akun member baru | |
| Include Cases | **Request Search By Category** | |
| Main Flow | Step | Action |
|  | 1 | Mengisi keyword yang akan dicari |
|  | 2 | Memilih kategori |
|  | 3 | Mencari berdasarkan keyword dan kategori |
|  | 4  **Include :: request search by Category** | Meminta data ke Web service |
|  | 5 | Content yang dicari ditemukan |
| Extensions | 4.1 | Gagal meminta ke Web service |
|  | 5.1 | Content yang dicari tidak ditemukan |

1. **Search By City**

|  |  |  |
| --- | --- | --- |
| Use case name | Search By City | |
| Related Requirements | SKPL-F-002-4  SKPL-F-003-4 | |
| Goal In Context | User mencari content berdasarkan kota atau lokasi | |
| Preconditions | Sistem menampilkan content yang belum dicari berdasarkan kota atau lokasi | |
| Successful End Condition | Sistem menampilkan content yang sudah dicari berdasarkan kota atau lokasi | |
| Failed End Condition | Sistem akan menampilkan pesan informasi”content yang anda cari tidak ditemukan” | |
| Primary Actors | User | |
| Secondary Actors | Web Service | |
| Trigger | Sistem membuatkan akun member baru | |
| Include cases | **Request Search By City** | |
| Main Flow | Step | Action |
|  | 1 | Mengisi keyword yang akan dicari |
|  | 2 | Memilih kota atau lokasi |
|  | 3 | Mencari berdasarkan keyword dan city |
|  | 4  **Include :: request search by City** | Meminta data ke Web service |
|  | 5 | Content yang dicari ditemukan |
| Extensions | 4.1 | Gagal meminta ke web service |
|  | 5.1 | Content yang dicari tidak ditemukan |

1. **View Content (Home)**

|  |  |  |
| --- | --- | --- |
| Use case name | View Content (Home) | |
| Related Requirements | SKPL-F-007 | |
| Goal In Context | Sistem dapat menampilkan halaman utama | |
| Preconditions | Pengunjung atau Member belum masuk ke sistem | |
| Successful End Condition | Sistem menampilkan content di halaman utama | |
| Failed End Condition | Sistem menampilkan pesan “ content gagal di muat” | |
| Primary Actors | User | |
| Secondary Actors | Member, Web service | |
| Trigger | Sistem membuatkan akun member baru | |
| Include cases | **Request** | |
| Main Flow | Step | Action |
|  | 1 | Member/pengunjung menggunakan sistem |
|  | 2 | Sistem meminta data content ke Web sevice |
|  | 3 | Konten berhasil di muat |
| Extensions | 3.1 | Konten gagal dimuat |

1. **Member Login**

|  |  |  |
| --- | --- | --- |
| Use case name | Member Login | |
| Related Requirements | SKPL-F-001-1 | |
| Goal In Context | User dapat melakukan aktivitas hak user | |
| Preconditions | Sistem menampilkan halaman utama sebagai pengunjung | |
| Successful End Condition | Sistem menampilkan halaman utama sebagai member | |
| Failed End Condition | Sistem akan menampilkan pesan “Username atau Password Anda salah.” | |
| Primary Actors | Member | |
| Secondary Actors | Web service | |
| Trigger | Member melakukan login | |
| Include Cases | **Send** | |
| Main Flow | Step | Action |
|  | 1 | Pengunjung mengisi username dan password |
|  | 2  **Include::send** | Mengirim data ke web service |
| 3 | Memverifikasi ke data member |
| 4 | Mengarahkan ke halaman utama member |
|  |  |
| Extensions | 3.1 | Verifikasi data member gagal dan menapilkan pesan “Username atau Password Anda salah.” |

1. **Create new content**

|  |  |  |
| --- | --- | --- |
| Use case name | Create new content | |
| Related Requirements | SKPL-F-002-1  SKPL-F-003-1 | |
| Goal In Context | Member dapat menambah data kehilangan dan atau penemuan barang | |
| Preconditions | Member sudah melakukan login | |
| Successful End Condition | Sistem akan menambah data kehilangan dan atau penemuan barang | |
| Failed End Condition | Sistem akan menampilkan pesan “Gagal disimpan” | |
| Primary Actors | Member | |
| Secondary Actors | Web service | |
| Trigger | Member menambah data kehilangan dan penemuan barang | |
| Include cases | **Select type find or lost , send** | |
| Main Flow | Step | Action |
|  | 1 | Member mengisi form content |
|  | 2  **Include :: Select type find or lost** | Member memilih type content |
| 3  **Include :: send** | Mengirim data ke web service |
| 4 | Data berhasil ditambah |
| 5 | Mengarahkan ke halaman utama member |
| Extensions | 3.1 | Data gagal ditambahkan |

1. **Edit Content**

|  |  |  |
| --- | --- | --- |
| Use case name | Edit Content | |
| Related Requirements | SKPL-F-002-2  SKPL-F-003-2 | |
| Goal In Context | Member merubah data kehilangan dan atau penemuan barang | |
| Preconditions | Member sudah melakukan login | |
| Successful End Condition | Sistem akan mengubah data kehilangan dan atau penemuan barang | |
| Failed End Condition | Sistem akan menampilkan pesan “Gagal disimpan” | |
| Primary Actors | Member | |
| Secondary Actors | Web Service | |
| Trigger | Member melakukan ubah content | |
| Include cases | **Send** | |
| Main Flow | Step | Action |
|  | 1 | Member memilih content data yang akan diubah |
|  | 2 | Member mengubah isi data kehilangan atau penemuan barang |
| 3  **Include::send** | Mengirim data ke web sevice |
| 4 | Content berhasil diubah |
| 5 | Sistem menampilkan content yang sudah di ubah |
| Extensions | 4.1 | Content gagal diubah |

1. **Edit Profile**

|  |  |  |
| --- | --- | --- |
| Use case name | Edit Profile | |
| Related Requirements | SKPL-F-004 | |
| Goal In Context | Member berhasil mengubah detail profil | |
| Preconditions | Member sudah melakukan login,  Berda pada halaman Profile member | |
| Successful End Condition | Sistem akan mengubah data kehilangan dan atau penemuan barang | |
| Failed End Condition | Sistem akan menampilkan pesan “Gagal disimpan” | |
| Primary Actors | Member | |
| Secondary Actors | Web Service | |
| Trigger | Member akan melakukan edit profil | |
| Include Cases | **Send** | |
| Main Flow | Step | Action |
|  | 1 | Member memilih data yang akan diubah |
|  | 2 | Member mengubah isi detail profile |
| 3  **Include:: send** | Mengirimkan data ke web service |
| 4 | Detail profil berhasil diubah |
| 5 | Mengarahkan ke halaman profil member |
| Extensions | 4.1 | Detail profil gagal diubah |

1. **Report abuse**

|  |  |  |
| --- | --- | --- |
| Use case name | Report abuse | |
| Related Requirements | SKPL-F-006-1 | |
| Goal In Context | Member berhasil mengirimkan laporan penyalahgunaan | |
| Preconditions | Member sudah melakukan login, | |
| Successful End Condition | Sistem akan mengirimkan laporan penyalahgunaan | |
| Failed End Condition | Sistem akan menampilkan pesan “Gagal dikirim” | |
| Primary Actors | Member | |
| Secondary Actors | Web Service | |
| Trigger | Member akan melaporkan penyalahgunaan | |
| Include Cases | **Send** | |
| Main Flow | Step | Action |
|  | 1 | Member memilih content yang akan dilaporkan |
| 2 | Member mengisi isi laporan |
| 3  **Include::send** | Mengirim data ke web sevice |
| 4 | Laporan penyalahgunaan terkirim |
| Extensions | 4.1 | Laporan penyalahgunaan gagal dikirim |

1. **Send message to another member**

|  |  |  |
| --- | --- | --- |
| Use case name | send message to another member | |
| Related Requirements | SKPL-F-005 | |
| Goal In Context | Sistem mengirim pesan antar member | |
| Preconditions | Member sudah melakukan login | |
| Successful End Condition | Sistem berhasil mengirim pesan antar member | |
| Failed End Condition | Sistem menampilkan pesan “ Pesan Gagal dikirim” | |
| Primary Actors | User | |
| Secondary Actors | Member, Web service | |
| Trigger | Sistem membuatkan akun member baru | |
| Include cases | **send** | |
| Main Flow | Step | Action |
|  | 1 | Mengisi alamat yang di tuju |
|  | 2 | Mengisi pesan yang akan dikirim |
|  | 3 | Mengirim pesan |
|  | 4  **Include::send** | Mengirim data ke web service |
|  | 5 | Pesan Berhasil di kirim |
| Extensions | 5.1 | Pesan gagal dikirim |

1. **Reply message**

|  |  |  |
| --- | --- | --- |
| Use case name | Reply Message | |
| Related Requirements | SKPL-F-005 | |
| Goal In Context | Sistem dapat membalas pesan antar member | |
| Preconditions | Member sudah melakukan login | |
| Successful End Condition | Sistem berhasil membalas pesan antar member | |
| Failed End Condition | Sistem akan menampilkan pesan “Pesan gagal dikirim.” | |
| Primary Actors | Admin | |
| Secondary Actors | Member, Web service | |
| Trigger | Member akan membalas pesan | |
| Include Cases | **Send** | |
| Main Flow | Step | Action |
|  | 1 | Memilih pesan yang akan di balas |
| 2 | Mengisi pesan |
| 3 | Mengirim pesan |
| 4  **Include::send** | Mengirim data ke web service |
|  | 5 | Pesan terkirim |
| Extensions | 5.1 | Pesan gagal terkirim |

1. **Admin Login**

|  |  |  |
| --- | --- | --- |
| Use case name | Login admin | |
| Related Requirements | SKPL-F-001 | |
| Goal In Context | Sistem akan mengarahkan ke halaman utama admin kemudian dapat melakukan aktivitas hak admin | |
| Preconditions | Sistem menampilkan halaman utama sebagai pengunjung | |
| Successful End Condition | Sistem menampilkan halaman utama sebagai admin | |
| Failed End Condition | Sistem akan menampilkan pesan “Username atau Password Anda salah.” | |
| Primary Actors | Admin | |
| Trigger | Admin ain melakukan login ke sistem | |
| Main Flow | Step | Action |
|  | 1 | Masuk ke halaman form login admin |
|  | 2 | Mengisi username dan password |
|  | 3 | Memverifikasi ke data admin |
|  | 4 | Mengarahkan ke halaman utama admin |
| Extensions | 3.1 | Verifikasi data admin gagal dan menapilkan pesan “Username atau Password Anda salah.” |

1. **Create new content admin**

|  |  |  |
| --- | --- | --- |
| Use case name | Create new content admin | |
| Related Requirements | SKPL-F-002  SKPL-F-003 | |
| Goal In Context | Admin menambahkan Content baru | |
| Preconditions | Admin sudah melakukan login | |
| Successful End Condition | Admin Berhasil Menambahkan Content baru | |
| Failed End Condition | Sistem akan menampilkan pesan “Content gagal disimpan” | |
| Primary Actors | Admin | |
| Trigger | Admin akan menambahkan Content baru | |
| Main Flow | Step | Action |
|  | 1 | Admin masuk ke halaman form Content |
|  | 2 | Mengisi data Content |
| 3 | Mengirim data content ke database |
| 4 | Data berhasil ditambah |
| Extensions | 4.1 | Data gagal ditambahkan |

1. **Delete Content**

|  |  |  |
| --- | --- | --- |
| Use case name | Delete Content | |
| Related Requirements | SKPL-F-002-3  SKPL-F-003-3 | |
| Goal In Context | Admin menghapus Content | |
| Preconditions | Admin sudah melakukan login | |
| Successful End Condition | Admin berhasil menghapus Content | |
| Failed End Condition | Sistem akan menampilkan pesan “Content gagal dihapus” | |
| Primary Actors | Admin | |
| Trigger | Admin akan menghapus Content | |
| Main Flow | Step | Action |
|  | 1 | Admin memilih Conten yang dihapus |
|  | 2 | Admin menghapus Content yang dipilih |
| 3 | Proses penghapusan content dari database |
| 4 | Content berhasil dihapus |
| Extensions | 4.1 | Content gagal dihapus |

1. **Search Content admin**

|  |  |  |
| --- | --- | --- |
| Use case name | Search Content admin | |
| Related Requirements | SKPL-F-002-4  SKPL-F-003-4 | |
| Goal In Context | Sistem menampilkan Content yang dicari | |
| Preconditions | Admin sudah login | |
| Successful End Condition | Sistem berhasil menampilkan Content yang dicari | |
| Failed End Condition | Sistem akan menampilkan pesan “Conten yang dicari tidak ditemukan” | |
| Primary Actors | Admin | |
| Trigger | Admin akan melakukan pencarian Content | |
| Main Flow | Step | Action |
|  | 1 | Mengisi keyword yang akan dicari |
|  | 2 | Melakukan pencarian |
| 3 | Proses penasaran ke database |
| 4 | Content yang dicari ditemukan |
| Extensions | 4.1 | Content yang dicari tidak ditemukan |

1. **Delete member account**

|  |  |  |
| --- | --- | --- |
| Use case name | Delete member account | |
| Related Requirements | SKPL-F-004-3  SKPL-F-004-2 | |
| Goal In Context | Sistem menghapus member account | |
| Preconditions | Admin sudah melakukan login | |
| Successful End Condition | Sistem berhasil mengahapus account member | |
| Failed End Condition | Sistem akan menampilkan pesan “member account gagal dihapus” | |
| Primary Actors | Admin | |
| Trigger | Admin akan menghapus member account | |
| Main Flow | Step | Action |
|  | 1 | Memilih account member yang akan dihapus |
|  | 2 | Melakukan penghapusan account member |
| 3 | Proses penghapusan didatabase acount |
| 4 | Account member berhasil dihapus |
| Extensions | 4.1 | Account member gagal dihapus |

1. **Report**

|  |  |  |
| --- | --- | --- |
| Use case name | Report | |
| Related Requirements | SKPL-F-006 | |
| Goal In Context | Sistem menampilkan laporan penyalahgunaan | |
| Preconditions | Admin sudah melakukan login | |
| Successful End Condition | Sistem berhasil menampilkan laporan penyalahgunaan | |
| Failed End Condition | Sistem akan menampilkan pesan “laporan penyalahgunaan gagal di tampilkan” | |
| Primary Actors | Admin | |
| Trigger | Admin akan melihat laporan penyalahgunaan | |
| Main Flow | Step | Action |
|  | 1 | Admin masuk ke halaman laporan penyalahgunaan |
|  | 2 | Melakukan penampilan laporan penyalahgunaan |
| 3 | Requsest data ke database |
| 4 | Laporan penyalahgunaan berhasil ditampilkan |
| Extensions | 4.1 | Laporan penyalahgunaan gagal ditampilkan |

1. **Diagram Activity**
2. **Registration**



1. **Search By Category**



1. **Search By City**



1. **View Content (Home)**



1. **Member Login**



1. **Create New Content**



1. **Edit Content**



1. **Edit Profile**



1. Report abuse



1. **Send Message to another member**



1. **Reply Message**



1. **Admin Login**



1. **Create new Content admin**



1. **Delete Content**

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1. **Search Content Admin**

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1. **Delete Member Account**

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1. **Report**

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