DOKUMEN

SPESIFIKASI KEBUTUHAN PERANGKAT LUNAK

LETTREQUEST

letter request information system

untuk:

Department of Informatics Engineering ITS

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|  | **Jurusan**  **Teknik Informatika ITS** | Nomor Dokumen | | Halaman |
| *SKPL-001* | | 1/#52 |
| Revisi | - | DD MM YYYY |

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# Deskripsi Umum Kebutuhan

## Kebutuhan antarmuka eksternal

### Antarmuka pengguna

*Lettrequest* menggunakan antarmuka grafis (GUI). Pengguna dapat menginputkan melalui *keyboard* dan *mouse* serta digunakan dengan sistem operasi *Windows.*

### Antarmuka perangkat keras

Sistem *Lettrequest* berjalan di komputer *server*. Komputer yang ingin mengakses *Lettrequest* harus terhubung dengan jaringan internet.

### Antarmuka perangkat lunak

*Lettrequest* adalah program yang akan dibangun menggunakan bahasa HTML, ASP C# , SQL-Server dan akan berjalan pada Sistem Operasi WINDOWS.

### Antarmuka komunikasi

*Lettrequest* merupakan sistem yang terhubung di jaringan internet.

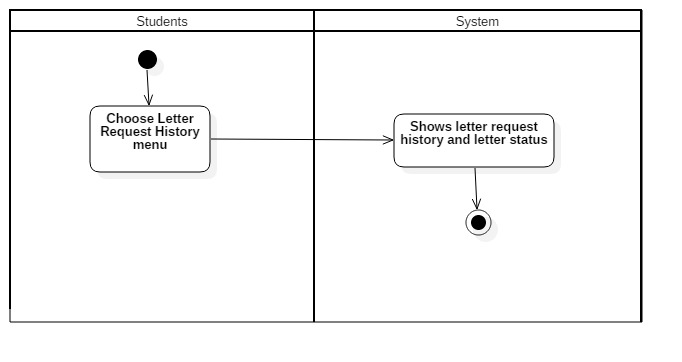
## Deskripsi Fungsional

### Function 5: See the Letter Request History

#### Scenario: See the Letter Request History

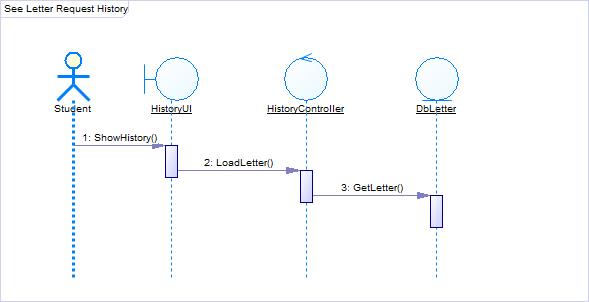
|  |  |
| --- | --- |
| Use Case Code | UC5 |
| Use Case Name | Letter Request History |
| Actor | Mahasiswa |
| Description | Mahasiswa bisa melihat riwayat permintaan surat yang pernah mereka buat |
| Pre-Condition | Home page dari sistem |
| Main Flow | 1. Mahasiswa memilih Letter Request History menu 2. Sistem akan menampilkan riwayat permintaan surat dan menampilkan edit and cancel button pada setiap surat yang belum direspon oleh admin |
| Alternate Flow |  |
| Post-Condition | Halaman Letter Request History akan ditampilkan oleh sistem |

#### Activity Diagram: See the Letter Request History



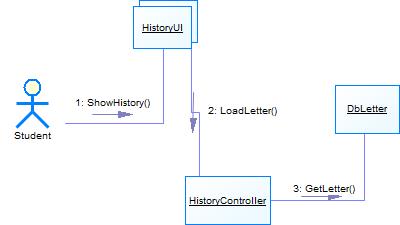
Picture 14. “See the Letter Request History”Activity Diagram

#### Sequence Diagram: See the Letter Request History



Picture 15. “See the Letter Request History” Sequence Diagram

#### Object Collaboration Diagram: See the Letter Request History



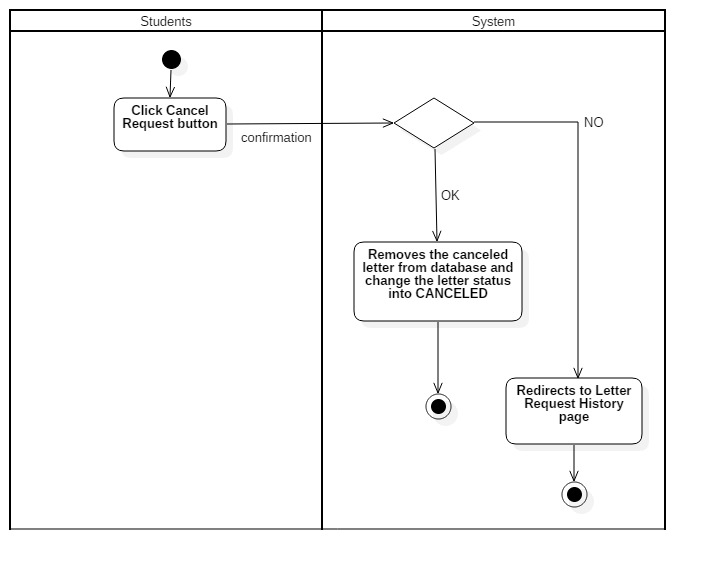
Picture 16. “See the Letter Request History” Collaboration Diagram

### Function 6: Canceling Requested Letter

#### Scenario: Canceling Requested Letter

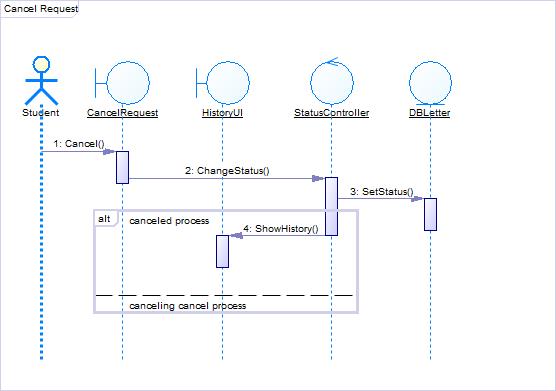
|  |  |
| --- | --- |
| Use Case Code | UC7 |
| Use Case Name | Cancel Request |
| Actor | Mahasiswa |
| Description | Mahasiswa bisa membatalkan permintaan surat yang dibuat |
| Pre-Condition | Halaman Letter Request History |
| Main Flow | 1. Mahasiswa mengeklik Cancel button yang terletak pada sebelah kanan surat yang ingin di*cancel* 2. Sistem akan menampilkan “Are you sure to cancel your request?” pop-up 3. Jika mahasiswa menekan tombol OK pada pop-up, sistem akan menghapus surat tersebut dari daftar permintaan surat pada halaman admin dan merubah status surat menjadi CANCELED di halaman Letter Request History 4. Jika mahasiswa menekan tombol NO pada pada pop-up, sistem akan tetap menampilkan surat tersebut pada halaman Letter Request History |
| Alternate Flow |  |
| Post-Condition | Permintaan surat berhasil dibatalkan |

#### Activity Diagram: Canceling Requested Letter



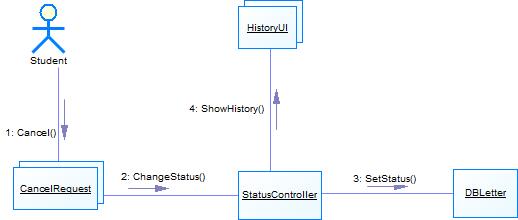
Picture 17. “Canceling Requested Letter” Activity Diagram

#### Sequence Diagram: Canceling Requested Letter



Picture 18. “Canceling Requested Letter” Sequence Diagram

#### Object Collaboration Diagram: Canceling Requested Letter



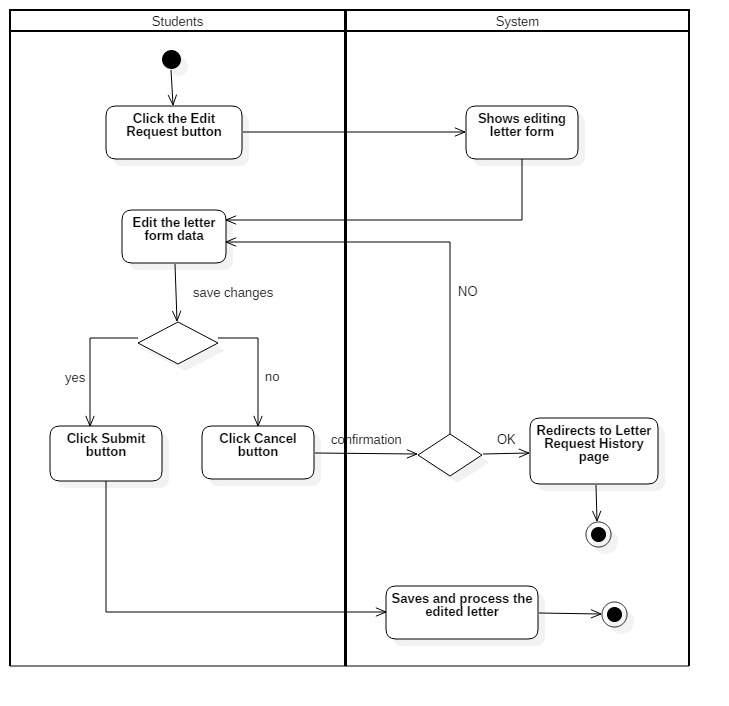
Picture 19. “Canceling Requested Letter” Object Collaboration Diagram

### Function 7: Editing Requested Letter

#### Scenario: Editing Requested Letter

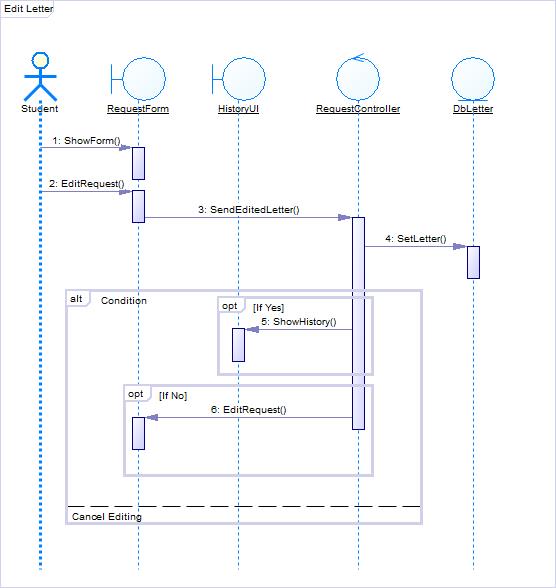
|  |  |
| --- | --- |
| Use Case Code | UC6 |
| Use Case Name | Edit Request |
| Actor | Mahasiswa |
| Description | Mahasiswa bisa mengedit surat yang telah mereka minta |
| Pre-Condition | Halaman Letter Request History |
| Main Flow | 1. Mahasiswa memilih tombol Edit yang terletak di sebelah kanan surat yang ingin mereka edit 2. Sistem akan menampilkan form untuk mengedit surat 3. Mahasiswa bisa mengedit surat yang diminta 4. Mahasiswa bisa mensubmit surat yang telah diedit dengan mengeklik tombol Submit 5. Sistem akan menyimpan dan memproses permintaan surat terbaru dari mahasiswa |
| Alternate Flow | * 1. Jika mahasiswa ingin membatalkan proses pengeditan, mahasiswa bisa mengeklik tombol Cancel   2. Sistem akan menampilkan “Are you sure to cancel your change?” pop-up   3. Jika mahasiswa mengeklik tombol OK yang ada pada pop-up, maka sistem akan mengalihkan mahasiswa ke halaman Letter Request History   4. Jika mahasiswa mengeklik tombol NO yang ada pada pop-up maka mahasiswa bisa melanjutkan mengedit surat |
| Post-Condition | Sistem akan menyimpan dan memproses permintaan surat terbaru dari mahasiswa |

#### Activity Diagram: Editing Requested Letter



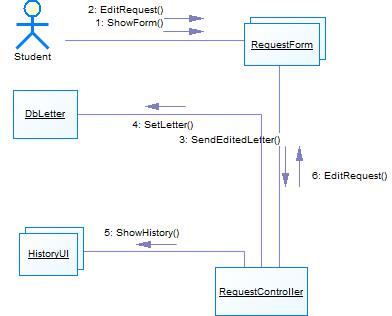
Picture 20. “Editing Requested Letter” Activity Diagram

#### Sequence Diagram: Editing Requested Letter



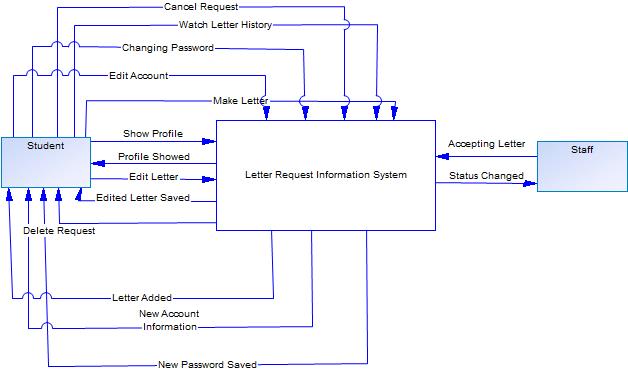
Picture 21. “Editing Requested Letter” Sequence Diagram

#### Object Collaboration Diagram: Editing Requested Letter

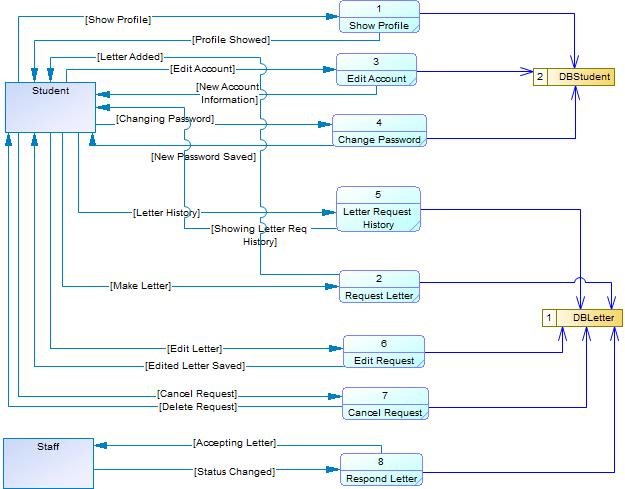


Picture 22. “Editing Requested Letter” Object Collaboration Diagram

## Data Flow Diagram



Picture 31. Data Flow Diagram Level 0



Picture 32. Data Flow Diagram Level 1

## Ringkasan Kebutuhan

### Ringkasan Kebutuhan Fungsional

**Tabel 8 Ringkasan Kebutuhan Fungsional**

|  |  |
| --- | --- |
| **SKPL-Id** | **Keterangan** |
| SKPL-F000 | Make New Letter Request |
| SKPL-F001 | See the Student Profile |
| SKPL-F002 | Edit the Student Profile |
| SKPL-F003 | Change the Student Password |
| SKPL-F004 | See the Letter Request History |
| SKPL-F005 | Edit the Requested Letter |
| SKPL-F006 | Cancel Requesting Letter |
| SKPL-F007 | Approve the Requested Letter |