| No. Kelompok | 03 |
| --- | --- |
| Anggota Kelompok | 1. 12S19020 - Imelda Sarah Dwiva Siregar 2. 12S19025 - Petrus Aquanur Sinaga  3. 12S19030 - Jaime Christ Bonar Sirait  4. 12S19033 - San Antonio Limbong  5. 12S19020 - Pabertoni Panjaitan |
| Nama Artefak | Designing REST Services |

1. Menambahkan data pada Register

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /register |
| Business process | : | [FR01] Register |
| Tujuan | : | Menambah satu *resource* (data register) ke dalam *collection* |
| Responsible Member | : |  |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | No |
| User group | : | Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": "1",  "nama": "namamahasiswa",  "username": "usernamemahasiswa",  "nomorinduk": "1123432",  "email": "emailmahasiswa@gmail.com",  "jeniskelamin": "perempuan",  "prodi": "teknik informatika",  "password ": "bcrypt",  "links": {“ ”}  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/” |

|  |  | #5: Use lowercase |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "success": true,  "data":  {  "id": "1",  "nama": "namamahasiswa",  "username": "usernamemahasiswa",  "nomorinduk": "1123432",  "email": "emailmahasiswa@gmail.com",  "jeniskelamin": "perempuan",  "prodi": "teknik informatika",  "email\_verified\_at": "(NULL)",  "password ": "bcrypt",  "remember\_token ": "(NULL)",  "created\_at ": "yyyy-mm-dd hh-mm-ss",  "updated\_at ": "yyyy-mm-dd hh-mm-ss",  "remember\_token ": "(NULL)",  },  "message": "Registration successful!Please Login." } |
| Applied Rules | : | #26: Using 201(Created) indicates that a resource is successfully created. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Register Collection** |
| URI | : | “/register” |

| Description | : | This link will direct the user to the register collection API. |
| --- | --- | --- |

2. Melakukan Login

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /login |
| Business process | : | [FR02] Login |
| Tujuan | : | Menambah satu *resource* (data login) ke dalam *collection* |
| Responsible Member | : |  |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "username": "namamahasiswa",  "password ": "password",  "links": {“ ”}  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "success": true,  "data":  { |

|  |  | "username": "namamahasiswa",  "password ": "password",  },  "message": "Insert data successfully."  } |
| --- | --- | --- |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Login Collection** |
| URI | : | “/login” |
| Description | : | This link will direct the user to the login collection API. |

3. Menampilkan Announcement

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /announcement |
| Business process | : | [FR03] Home |
| Tujuan | : | Menampilkan resource Announcement |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen, Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | { |

|  |  | "judul": "Pengumuman Lorem",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda...",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| --- | --- | --- |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (Ok) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Retrieve data success",  "data": {  "id": 4  "judul": "Pengumuman Lorem",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda.",  "updated\_at": "2021-11-18T18:12:20.000000Z", "created\_at": "2021-11-18T18:12:20.000000Z", },  "links": {  "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", |

|  |  | "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| --- | --- | --- |
| Applied Rules | : | #25: 200(OK) indicates that the request is completely executed without problems. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Data Not Found",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| Applied Rules | : | #37: 404(NotFound) indicates that the URI is not valid or simply does not exist. |
| **HATEOAS Links** | **:** | **Announcement Collection** |
| URI | : | "/announcement" |
| Description | : | This link will direct the user to the announcement collection API. |
| **HATEOAS Links** | **:** | **Search Announcement by id Action** |
| URI | : | /announcement/{id} |
| Description | : | This link will direct the user to the specific announcement collection API. |
| **HATEOAS Links** | **:** | **Create Announcement Action** |
| URI | : | /announcement/develop |
| Description | : | This link will direct the user to the create announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Edit Announcement Action** |

| URI | : | “/announcement/{id}/manage” |
| --- | --- | --- |
| Description | : | This link will direct the user to the edit announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Delete Announcement Action** |
| URI | : | “/announcement/{id}” |
| Description | : | This link will direct the user to the delete announcement at the announcement collection API. |

4. Menampilkan Announcement melalui ID

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /announcement/{id} |
| Business process | : | [FR03] Home |
| Tujuan | : | Menampilkan resource Announcement |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen, Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "judul": "Pengumuman Lorem",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda...",  "links": {  "display\_announcement": "/api/announcement", "develop\_announcement": "/api/announcement/develop", "manage\_announcement": "/api/announcement/{id}/manage", |

|  |  | "remove\_announcement": "/api/announcement/{id}" }  } |
| --- | --- | --- |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (Ok) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Retrieve data with id success",  "data": {  "id": 4  "judul": "Pengumuman Lorem",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda.",  "updated\_at": "2021-11-18T18:12:20.000000Z", "created\_at": "2021-11-18T18:12:20.000000Z", },  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| Applied Rules | : | #25: 200(OK) indicates that the request is completely executed without problems. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |

| Has payload data | : | Yes (JSON) |
| --- | --- | --- |
| Data structure | : | {  "error\_message": "Data Not Found",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| Applied Rules | : | #37: 404(NotFound) indicates that the URI is not valid or simply does not exist. |
| **HATEOAS Links** | **:** | **Announcement Collection** |
| URI | : | "/announcement" |
| Description | : | This link will direct the user to the announcement collection API. |
| **HATEOAS Links** | **:** | **Search Announcement by id Action** |
| URI | : | /announcement/{id} |
| Description | : | This link will direct the user to the specific announcement collection API. |
| **HATEOAS Links** | **:** | **Create Announcement Action** |
| URI | : | /announcement/develop |
| Description | : | This link will direct the user to the create announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Edit Announcement Action** |
| URI | : | “/announcement/{id}/manage” |
| Description | : | This link will direct the user to the edit announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Delete Announcement Action** |
| URI | : | “/announcement/{id}” |
| Description | : | This link will direct the user to the delete announcement at the announcement collection API. |

5. Menambah Announcement

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /announcement/develop |
| Business process | : | [FR03] Home |
| Tujuan | : | Menampilkan resource Announcement |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "judul": "Pengumuman Lorem",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda...",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |

| Data structure | : | {  "message": "Insert data success",  "data": {  "judul": "Pengumuman Lorem",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda.",  "updated\_at": "2021-11-18T18:29:16.000000Z", "created\_at": "2021-11-18T18:29:16.000000Z", "id": 5  },  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| --- | --- | --- |
| Applied Rules | : | #26: 201(Created) indicates that a resource is successfully created. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Incomplete or incorrect data fails the validation process",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" |

|  |  | }  } |
| --- | --- | --- |
| Applied Rules | : | #34: 400(BadRequest) indicates a general failure that is caused by the consumer |
| **HATEOAS Links** | **:** | **Announcement Collection** |
| URI | : | "/announcement" |
| Description | : | This link will direct the user to the announcement collection API. |
| **HATEOAS Links** | **:** | **Search Announcement by id Action** |
| URI | : | /announcement/{id} |
| Description | : | This link will direct the user to the specific announcement collection API. |
| **HATEOAS Links** | **:** | **Create Announcement Action** |
| URI | : | /announcement/develop |
| Description | : | This link will direct the user to the create announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Edit Announcement Action** |
| URI | : | “/announcement/{id}/manage” |
| Description | : | This link will direct the user to the edit announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Delete Announcement Action** |
| URI | : | “/announcement/{id}” |
| Description | : | This link will direct the user to the delete announcement at the announcement collection API. |

6. Mengubah Announcement melalui id

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /announcement/{id}/manage |
| Business process | : | [FR03] Home |
| Tujuan | : | Menampilkan resource Announcement |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |

| HTTP Verb | : | PUT |
| --- | --- | --- |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "judul": "Pengumuman Lorem Ipsum",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda...",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Update data success",  "data": {  "id": 5  "judul": "Pengumuman Lorem Ipsum",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda.",  "updated\_at": "2021-11-18T18:29:16.000000Z", "created\_at": "2021-11-18T18:29:16.000000Z", |

|  |  | },  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", "remove\_announcement": "/api/announcement/{id}" }  } |
| --- | --- | --- |
| Applied Rules | : | #26: 201(Created) indicates that a resource is successfully created. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Incomplete or incorrect data fails the validation process",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| Applied Rules | : | #34: 400(BadRequest) indicates a general failure that is caused by the consumer |
| **HATEOAS Links** | **:** | **Announcement Collection** |
| URI | : | "/announcement" |
| Description | : | This link will direct the user to the announcement collection API. |
| **HATEOAS Links** | **:** | **Search Announcement by id Action** |
| URI | : | /announcement/{id} |
| Description | : | This link will direct the user to the specific announcement collection API. |

| **HATEOAS Links** | **:** | **Create Announcement Action** |
| --- | --- | --- |
| URI | : | /announcement/develop |
| Description | : | This link will direct the user to the create announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Edit Announcement Action** |
| URI | : | “/announcement/{id}/manage” |
| Description | : | This link will direct the user to the edit announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Delete Announcement Action** |
| URI | : | “/announcement/{id}” |
| Description | : | This link will direct the user to the delete announcement at the announcement collection API. |

7. Menghapus Announcement melalui id

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /announcement/{id} |
| Business process | : | [FR03] Home |
| Tujuan | : | Menampilkan resource Announcement |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | DELETE |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "judul": "Pengumuman Lorem Ipsum",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda...", |

|  |  | "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| --- | --- | --- |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (Ok) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Delete data success",  "data": {  "id": 4,  "judul": "Pengumuman Lorem",  "deskripsi": "Lorem ipsum dolor sit amet consectetur adipiscing elit. Maiores, assumenda.",  "created\_at": "2021-11-18T18:12:20.000000Z", "updated\_at": "2021-11-18T18:12:20.000000Z"  },  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", "manage\_announcement": "/api/announcement/{id}/manage" } |

|  |  | } |
| --- | --- | --- |
| Applied Rules | : | #25: 200(OK) indicates that the request is completely executed without problems |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Data Not Found",  "links": {  "display\_announcement": "/api/announcement", "searchbyid\_announcement": "/api/announcement/{id}", "develop\_announcement": "/api/announcement/develop", "manage\_announcement": "/api/announcement/{id}/manage", "remove\_announcement": "/api/announcement/{id}" }  } |
| Applied Rules | : | #37: 404(NotFound) indicates that the URI is not valid or simply does not exist. |
| **HATEOAS Links** | **:** | **Announcement Collection** |
| URI | : | "/announcement" |
| Description | : | This link will direct the user to the announcement collection API. |
| **HATEOAS Links** | **:** | **Search Announcement by id Action** |
| URI | : | /announcement/{id} |
| Description | : | This link will direct the user to the specific announcement collection API. |
| **HATEOAS Links** | **:** | **Create Announcement Action** |
| URI | : | /announcement/develop |
| Description | : | This link will direct the user to the create announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Edit Announcement Action** |
| URI | : | “/announcement/{id}/manage” |
| Description | : | This link will direct the user to the edit announcement at the announcement collection API. |
| **HATEOAS Links** | **:** | **Delete Announcement Action** |

| URI | : | “/announcement/{id}” |
| --- | --- | --- |
| Description | : | This link will direct the user to the delete announcement at the announcement collection API. |

8. Pengajuan Topik

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /topic/develop |
| Business process | : | [FR04] Mengajukan topik |
| Tujuan | : | Melakukan pengajuan topik Tugas Akhir |
| Responsible Member | : | Imelda Siregar (@imeldasiregar |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "title": "ERD",  "deskripsi": "alasan kami memilih topik ini adalah..", "links": {“ topic/ ”}  } |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "title": "ERD",  "deskripsi": "alasan kami memilih topik ini adalah..", "message": "insert data successfully"  "links": {“ topic/”}  }  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "your request couldn’t be process", "links": {  "display": "topic/"  }  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **Topic collection** |
| URI | : | “/topic” |
| Description | : | This link will direct the consumer to the topic collection API. |
| **HATEOAS Links** | **:** | **Update topic action** |
| URI | : | /topic/{id}/manage |
| Description | : | This link will direct the consumer to the update topic action API. |

9. Edit Topik

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /topic/{id}/manage |
| Business process | : | [FR04] Mengajukan topik |
| Tujuan | : | Melakukan pengajuan topik Tugas Akhir (mengedit) |
| Responsible Member | : | Imelda Siregar (@imeldasiregar |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | PUT |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "title": "ERD",  "deskripsi": "alasan kami memilih topik ini adalah..", "links": {“ topic/{id}”}  } |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "title": "ERD",  "deskripsi": "alasan kami memilih topik ini adalah..", “message”: “insert data successfully”  "links": {“ topic/{id} ”}  }  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "your request couldn’t be process", "links": {  "display": "topic/{id} "  }  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **Topic collection** |
| URI | : | “/topic” |
| Description | : | This link will direct the consumer to the topic collection API. |
| **HATEOAS Links** | **:** | **Update topic action** |
| URI | : | “topic/{id}/manage” |
| Description | : | This link will direct the consumer to the update topic action API. |
| **HATEOAS Links** | **:** | **DIsplay topic action** |
| URI | : | “topic/(id)” |
| Description | : | This link will direct the consumer to the display topic action API. |

10. Menampilkan detail topik

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /topic |
| Business process | : | [FR04] Mengajukan topik |

| Tujuan | : | Menampilkan topik yang telah diajukan |
| --- | --- | --- |
| Responsible Member | : | Imelda Siregar (@imeldasiregar |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Mahasiswa dan dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "title": "ERD",  "deskripsi": "alasan kami memilih topik ini adalah..", "links": {  “update/edit” : “topic/{id}/manage”  “display” : “topic/{id}”  }  } |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "title": "ERD",  "deskripsi": "alasan kami memilih topik ini adalah..", "links": {  “index” : “topic/”  “update/edit” : “topic/{id}/manage”  }  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "your request couldn’t be process", "links": {  “index” : “topic/”  }  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **Topic collection** |
| URI | : | “/topic” |
| Description | : | This link will direct the consumer to the topic collection API. |
| **HATEOAS Links** | **:** | **Create topic action** |
| URI | : | “topic/develop” |
| Description | : | This link will direct the consumer to the add topic action API. |
| **HATEOAS Links** | **:** | **Update topic action** |
| URI | : | “topic/{id}/manage” |
| Description | : | This link will direct the consumer to the update topic action API. |
| **HATEOAS Links** | **:** | **Display topic action** |
| URI | : | “topic/{id}” |
| Description | : | This link will direct the consumer to the display topic action API. |

11. Penentuan Kelompok TA, dosen pembimbing dan penguji

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /group/develop |
| Business process | : | Menentukan kelompok TA, dosen pembimbing dan penguji |
| Tujuan | : | Melakukan penentuan kelompok TA, dosen pembimbing dan penguji |
| Responsible Member | : | Imelda Siregar (@imeldasiregar |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "No\_kelompok": "1",  "NIM-1": "12S19002",  “id\_dosen”: “1145678”  “nama”: “dosen pembimbing a”  “no\_telp”: 082234567654”  "links": {  “index” : “/group”  “create” : “group/develop”  “update/edit” : “group/{id}/manage”  “display” : “group/{id}”  }  } |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "No\_kelompok": "1",  "NIM-1": "12S19002",  “id\_dosen”: “1145678”  “nama”: “dosen pembimbing a”  “no\_telp”: 082234567654”  "message": "insert data successfully"  "links": {  “update/edit” : “group/{id}/manage”  “display” : “group/{id}”  }  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "your request couldn’t be process", "links": {  “index” : “/group”  }  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |

| **HATEOAS Links** | **:** | **group collection** |
| --- | --- | --- |
| URI | : | “/group” |
| Description | : | This link will direct the consumer to the group collection API. |
| **HATEOAS Links** | **:** | **Create group action** |
| URI | : | “group/develop” |
| Description | : | This link will direct the consumer to the add group action API. |
| **HATEOAS Links** | **:** | **Update group action** |
| URI | : | “group/{id}/manage” |
| Description | : | This link will direct the consumer to the update group action API. |
| **HATEOAS Links** | **:** | **Display group action** |
| URI | : | “group/{id}” |
| Description | : | This link will direct the consumer to the display group action API. |

12. Edit Penentuan Kelompok TA, dosen pembimbing dan penguji

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /group/{id}/manage |
| Business process | : | Menentukan kelompok TA, dosen pembimbing dan penguji |
| Tujuan | : | Melakukan pengeditan kelompok TA, dosen pembimbing dan penguji |
| Responsible Member | : | Imelda Siregar (@imeldasiregar |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | PUT |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Mahasiswa, dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "No\_kelompok": "1",  "NIM-1": "12S19002",  “id\_dosen”: “1145678”  “nama”: “dosen pembimbing a”  “no\_telp”: 082234567654”  "links": {  “index” : “/group”  }  } |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "No\_kelompok": "1",  "NIM-1": "12S19002",  “id\_dosen”: “1145678”  “nama”: “dosen pembimbing a”  “no\_telp”: 082234567654”  “message”: “Change data successfully”,  "links": {“index” : “/group”}  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON |
| Data structure | : | {  "error\_message": "your request couldn’t be process", |

|  |  | "links": {  “index” : “/group”  }  } |
| --- | --- | --- |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **group collection** |
| URI | : | “/group” |
| Description | : | This link will direct the consumer to the group collection API. |
| **HATEOAS Links** | **:** | **Create group action** |
| URI | : | “group/develop” |
| Description | : | This link will direct the consumer to the add group action API. |
| **HATEOAS Links** | **:** | **Update group action** |
| URI | : | “group/{id}/manage” |
| Description | : | This link will direct the consumer to the update group action API. |
| **HATEOAS Links** | **:** | **Display group action** |
| URI | : | “group/{id}” |
| Description | : | This link will direct the consumer to the display group action API. |

13. Melihat detail daftar Kelompok TA, dosen pembimbing dan penguji

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /group/{id} |
| Business process | : | Menentukan kelompok TA, dosen pembimbing dan penguji |
| Tujuan | : | Menampilkan daftar kelompok TA, dosen pembimbing dan penguji |
| Responsible Member | : | Imelda Siregar (@imeldasiregar |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Librarian (*otherwise forbidden*) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "No\_kelompok": "1",  "NIM-1": "12S19002",  “id\_dosen”: “1145678”  “nama”: “dosen pembimbing a”  “no\_telp”: 082234567654”  "links": {  “update/edit” : “group/manage”  “display” : “group/show”  }  } |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "No\_kelompok": "1",  "NIM-1": "12S19002",  “id\_dosen”: “1145678”  “nama”: “dosen pembimbing a”  “no\_telp”: 082234567654” |

|  |  | "links": {  “index” : “group/”  “update/edit” : “group/{id}/manage”  }  } |
| --- | --- | --- |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "your request couldn’t be process", "links": {  “index” : “group/”  }  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **group collection** |
| URI | : | “/group” |
| Description | : | This link will direct the consumer to the group collection API. |
| **HATEOAS Links** | **:** | **Create group action** |
| URI | : | “group/develop” |
| Description | : | This link will direct the consumer to the add group action API. |
| **HATEOAS Links** | **:** | **Update group action** |
| URI | : | “group/{id}/manage” |
| Description | : | This link will direct the consumer to the update group action API. |
| **HATEOAS Links** | **:** | **Display group action** |
| URI | : | “group/{id}” |
| Description | : | This link will direct the consumer to the display group action API. |

14. Menampilkan Profil

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /profile/{id} |
| Business process | : | Menampilkan profile user |
| Tujuan | : | Menampilkan profile user |
| Responsible Member | : | Imelda Siregar (@imeldasiregar |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | All User And admin |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "nama": "Imelda sarah dwiva siregar",  "nomorinduk": "12S19002",  “tanggallahir” “2 februari 2002”  “tempatlahir”: “Silangit”  “prodi”: “Sistem Informasi”  “email”: “imeldasiregar@gmail.com”  “notelp”: “082234567654”  “jeniskelamin”: “perempuan”  “alamat”: “sitoluama”  “agama”: “Kristen Protestan”  "links": {“ ”} |

|  |  | } |
| --- | --- | --- |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "nama": "Imelda sarah dwiva siregar",  "nomorinduk": "12S19002",  “tanggallahir” “2 februari 2002”  “tempatlahir”: “Silangit”  “prodi”: “Sistem Informasi”  “email”: “imeldasiregar@gmail.com”  “notelp”: “082234567654”  “jeniskelamin”: “perempuan”  “alamat”: “sitoluama”  “agama”: “Kristen Protestan”  "links": { “update/edit” : “profile/{id}/manage”  }  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "your request couldn’t be process", "links": {  "display": "/profile "  }  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **Update Profile action** |
| URI | : | /profile/{id}/manage |
| Description | : | This link will direct the consumer to the update profile action API. |

15. Mengupdate profil

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /profile/{id}/manage |
| Business process | : | Menampilkan profile user |
| Tujuan | : | Mengubah data profile user |
| Responsible Member | : | Jaime Sirait |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | PUT |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | All User And admin |
| Has payload data | : | Yes (JSON) |

| Data structure | : | {  "nama": "Imelda sarah dwiva siregar",  "nomorinduk": "12S19002",  “tanggallahir” “2 februari 2002”  “tempatlahir”: “Silangit”  “prodi”: “Sistem Informasi”  “email”: “imeldasiregar@gmail.com”  “notelp”: “082234567654”  “jeniskelamin”: “perempuan”  “alamat”: “silangit”  “agama”: “Kristen Protestan”  "links": {“ ”}  } |
| --- | --- | --- |
| Applied Rules | : | #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "nama": "Imelda sarah dwiva siregar",  "nomorinduk": "12S19002",  “tanggallahir” “2 februari 2002”  “tempatlahir”: “Silangit”  “prodi”: “Sistem Informasi”  “email”: “imeldasiregar@gmail.com”  “notelp”: “082234567654”  “jeniskelamin”: “perempuan”  “alamat”: “silangit”  “agama”: “Kristen Protestan”  “message”: “change data successfully”,  "links": { "display": "/profile{id} "  }  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "your request couldn’t be process", "links": {  "display": "/profile{id} "  }  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **Profile Collection** |
| URI | : | /profile |
| Description | : | This link will direct the consumer to the profile collection API. |

16. Menampilkan daftar Enrollment

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /enrollment |

| Business process | : | [FR05] Pendaftaran Mahasiswa TA |
| --- | --- | --- |
| Tujuan | : | Menampilkan resource Enrollment |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen, Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "data": [  {  "user\_id": 1,  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 120,  }  ],  "links": {  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided |

|  |  | #5: Use lowercase |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (Ok) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Retrieve data success",  "data": [  {  "id": 1,  "user\_id": 1,  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 120,  "status": **null**,  "created\_at": "2021-11-19T00:13:13.000000Z", "updated\_at": "2021-11-19T00:14:50.000000Z" }  ],  "links": {  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #25: 200(OK) indicates that the request is completely executed without problems. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |

| Data structure | : | {  "error\_message": "Data Not Found",  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| --- | --- | --- |
| Applied Rules | : | #37: 404(NotFound) indicates that the URI is not valid or simply does not exist. |
| **HATEOAS Links** | **:** | **Enrollment Collection** |
| URI | : | "/enrollment" |
| Description | : | This link will direct the user to the enrollment collection API. |
| **HATEOAS Links** | **:** | **Search Enrollment by id Action** |
| URI | : | /enrollment/{id} |
| Description | : | This link will direct the user to the specific enrollment collection API. |
| **HATEOAS Links** | **:** | **Create Enrollment Action** |
| URI | : | /enrollment/develop |
| Description | : | This link will direct the user to the create data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Edit Enrollment Action** |
| URI | : | “/enrollment/{id}/manage” |
| Description | : | This link will direct the user to the edit data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Delete Enrollment Action** |
| URI | : | “/enrollment/{id}” |
| Description | : | This link will direct the user to the delete data at the enrollment collection API. |

17. Menampilkan Enrollment tertentu melalui ID

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /enrollment/{id} |
| Business process | : | [FR05] Pendaftaran Mahasiswa TA |
| Tujuan | : | Menampilkan resource Enrollment |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen, Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "user\_id": 1,  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 120,  "links": {  "display\_enrollment": "/api/enrollment",  "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |

| HTTP Status Code | : | 200 (Ok) |
| --- | --- | --- |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Retrieve data with id success",  "data": {  "id": 1,  "user\_id": 1,  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 120,  "status": **null**,  "created\_at": "2021-11-19T00:13:13.000000Z", "updated\_at": "2021-11-19T00:13:13.000000Z"  },  "links": {  "display\_enrollment": "/api/enrollment",  "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #25: 200(OK) indicates that the request is completely executed without problems. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Data Not Found",  "links": {  "display\_enrollment": "/api/enrollment", |

|  |  | "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| --- | --- | --- |
| Applied Rules | : | #37: 404(NotFound) indicates that the URI is not valid or simply does not exist. |
| **HATEOAS Links** | **:** | **Enrollment Collection** |
| URI | : | "/enrollment" |
| Description | : | This link will direct the user to the enrollment collection API. |
| **HATEOAS Links** | **:** | **Search Enrollment by id Action** |
| URI | : | /enrollment/{id} |
| Description | : | This link will direct the user to the specific enrollment collection API. |
| **HATEOAS Links** | **:** | **Create Enrollment Action** |
| URI | : | /enrollment/develop |
| Description | : | This link will direct the user to the create data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Edit Enrollment Action** |
| URI | : | “/enrollment/{id}/manage” |
| Description | : | This link will direct the user to the edit data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Delete Enrollment Action** |
| URI | : | “/enrollment/{id}” |
| Description | : | This link will direct the user to the delete data at the enrollment collection API. |

18. Menambah data Enrollment

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /enrollment/develop |
| Business process | : | [FR05] Pendaftaran Mahasiswa TA |
| Tujuan | : | Menampilkan resource Enrollment |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/” |

|  |  | #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| --- | --- | --- |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "user\_id": 1,  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 120,  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Insert data success",  "data": {  "user\_id": "1", |

|  |  | "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": "120",  "updated\_at": "2021-11-19T00:13:13.000000Z", "created\_at": "2021-11-19T00:13:13.000000Z", "id": 1  },  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| --- | --- | --- |
| Applied Rules | : | #26: 201(Created) indicates that a resource is successfully created. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Incomplete or incorrect data fails the validation process",  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #34: 400(BadRequest) indicates a general failure that is caused by the consumer |

| **HATEOAS Links** | **:** | **Enrollment Collection** |
| --- | --- | --- |
| URI | : | "/enrollment" |
| Description | : | This link will direct the user to the enrollment collection API. |
| **HATEOAS Links** | **:** | **Search Enrollment by id Action** |
| URI | : | /enrollment/{id} |
| Description | : | This link will direct the user to the specific enrollment collection API. |
| **HATEOAS Links** | **:** | **Create Enrollment Action** |
| URI | : | /enrollment/develop |
| Description | : | This link will direct the user to the create data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Edit Enrollment Action** |
| URI | : | “/enrollment/{id}/manage” |
| Description | : | This link will direct the user to the edit data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Delete Enrollment Action** |
| URI | : | “/enrollment/{id}” |
| Description | : | This link will direct the user to the delete data at the enrollment collection API. |

19. Mengubah Enrollment melalui id

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /enrollment/{id}/manage |
| Business process | : | [FR05] Pendaftaran Mahasiswa TA |
| Tujuan | : | Menampilkan resource Enrollment |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | PUT |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen |

| Has payload data | : | Yes (JSON) |
| --- | --- | --- |
| Data structure | : | {  "user\_id": 1,  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 144,  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Update data success",  "data": {  "id": 1,  "user\_id": "1",  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": "144",  "status": **null**, |

|  |  | "created\_at": "2021-11-19T00:13:13.000000Z", "updated\_at": "2021-11-19T00:14:50.000000Z"  },  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| --- | --- | --- |
| Applied Rules | : | #26: 201(Created) indicates that a resource is successfully created. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Incomplete or incorrect data fails the validation process",  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #34: 400(BadRequest) indicates a general failure that is caused by the consumer |
| **HATEOAS Links** | **:** | **Enrollment Collection** |
| URI | : | "/enrollment" |
| Description | : | This link will direct the user to the enrollment collection API. |
| **HATEOAS Links** | **:** | **Search Enrollment by id Action** |

| URI | : | /enrollment/{id} |
| --- | --- | --- |
| Description | : | This link will direct the user to the specific enrollment collection API. |
| **HATEOAS Links** | **:** | **Create Enrollment Action** |
| URI | : | /enrollment/develop |
| Description | : | This link will direct the user to the create data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Edit Enrollment Action** |
| URI | : | “/enrollment/{id}/manage” |
| Description | : | This link will direct the user to the edit data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Delete Enrollment Action** |
| URI | : | “/enrollment/{id}” |
| Description | : | This link will direct the user to the delete data at the enrollment collection API. |

20. Menghapus Enrollment melalui id

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /enrollment/{id} |
| Business process | : | [FR05] Pendaftaran Mahasiswa TA |
| Tujuan | : | Menampilkan resource Enrollment |
| Responsible Member | : | San Antonio Limbong |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | DELETE |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "user\_id": 1, |

|  |  | "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 144,  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", }  } |
| --- | --- | --- |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #4: Underscore “\_” should be avoided  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (Ok) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Delete data success",  "data": {  "id": 1,  "user\_id": 1,  "nama": "San Antonio Limbong",  "nim": "12S19033",  "totalsks": 144,  "status": **null**,  "created\_at": "2021-11-19T00:13:13.000000Z", "updated\_at": "2021-11-19T00:14:50.000000Z"  },  "links": { |

|  |  | "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage" }  } |
| --- | --- | --- |
| Applied Rules | : | #25: 200(OK) indicates that the request is completely executed without problems |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": "Data Not Found",  "links": {  "display\_enrollment": "/api/enrollment",  "searchbyid\_enrollment": "/api/enrollment/{id}", "develop\_enrollment": "/api/enrollment/develop", "manage\_enrollment": "/api/enrollment/{id}/manage", "remove\_enrollment": "/api/enrollment/{id}"  }  } |
| Applied Rules | : | #37: 404(NotFound) indicates that the URI is not valid or simply does not exist. |
| **HATEOAS Links** | **:** | **Enrollment Collection** |
| URI | : | "/enrollment" |
| Description | : | This link will direct the user to the enrollment collection API. |
| **HATEOAS Links** | **:** | **Search Enrollment by id Action** |
| URI | : | /enrollment/{id} |
| Description | : | This link will direct the user to the specific enrollment collection API. |
| **HATEOAS Links** | **:** | **Create Enrollment Action** |
| URI | : | /enrollment/develop |

| Description | : | This link will direct the user to the create data at the enrollment collection API. |
| --- | --- | --- |
| **HATEOAS Links** | **:** | **Edit Enrollment Action** |
| URI | : | “/enrollment/{id}/manage” |
| Description | : | This link will direct the user to the edit data at the enrollment collection API. |
| **HATEOAS Links** | **:** | **Delete Enrollment Action** |
| URI | : | “/enrollment/{id}” |
| Description | : | This link will direct the user to the delete data at the enrollment collection API. |

21. Menambahkan data Meeting Management

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /meeting/develop |
| Business process | : | [FR09] Meeting Management |
| Tujuan | : | Menambah satu *resource* (data meeting management) ke dalam *collection* |
| Responsible Member | : | Pabertoni panjaitan (@PabertoniPanjaitan) |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Admin |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "namakelompok": "kelompok 2",  "jeniskegiatan": "Bimbingan Tugas Akhir",  "linkmeet": "xxx-yyy-zzz",  "dosenpembimbing": "Dosen B",  "tanggal": "2022-01-30", |

|  |  | "waktu": "15:00:00",  "status": "Pending",  "links": {“ ”}  } |
| --- | --- | --- |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 1,  "namakelompok": "kelompok 2",  "jeniskegiatan": "Bimbingan Tugas Akhir",  "linkmeet": "xxx-yyy-zzz",  "dosenpembimbing": "Dosen B",  "tanggal": "2022-01-30",  "waktu": "15:00:00",  "status": "Pending",  "message": "Insert data successfully!"  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Meeting Collection** |
| URI | : | /meeting |
| Description | : | This link will direct the user to the meeting collection API. |

| **HATEOAS Links** | **:** | **Create Data Action** |
| --- | --- | --- |
| URI | : | /meeting/develop |
| Description | : | This link will direct the user to the add data at meeting collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | /meeting/{id}/manage |
| Description | : | This link will direct the user to the edit data at meeting collection API. |

22. Melihat data Meeting Management berdasarkan id

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /meeting/{id} |
| Business process | : | [FR09] Meeting Management |
| Tujuan | : | Menampilkan *resource* (data meeting management) ke dalam halaman |
| Responsible Member | : | Pabertoni Panjaitan |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 1,  "namakelompok": "kelompok 2",  "jeniskegiatan": "Bimbingan Tugas Akhir",  "linkmeet": "xxx-yyy-zzz",  "dosenpembimbing": "Dosen B",  "tanggal": "2022-01-30",  "waktu": "15:00:00",  "status": "Pending"  } |

| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (Ok) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Data Found!!!",  "id": 1,  "namakelompok": "kelompok 2",  "jeniskegiatan": "Bimbingan Tugas Akhir",  "linkmeet": "xxx-yyy-zzz",  "dosenpembimbing": "Dosen B",  "tanggal": "2022-01-30",  "waktu": "15:00:00",  "status": "Pending"  } |
| Applied Rules | : | #25: 200 (OK) indicates that the request is completely executed without problems |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Meeting Collection** |
| URI | : | /meeting |
| Description | : | This link will direct the user to the meeting collection API. |
| **HATEOAS Links** | **:** | **Create Data Action** |
| URI | : | /meeting/develop |
| Description | : | This link will direct the user to the add data at meeting collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |

| URI | : | /meeting/{id}/manage |
| --- | --- | --- |
| Description | : | This link will direct the user to the edit data at meeting collection API. |

23. Mengubah data Meeting Management berdasarkan id

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /meeting/{id}/manage |
| Business process | : | [FR09] Meeting Management |
| Tujuan | : | Mengubah satu *resource* (data meeting management) ke dalam *collection* |
| Responsible Member | : | Pabertoni Panjaitan |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | PUT |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Admin |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 1,  "namakelompok": "Kelompok 1",  "jeniskegiatan": "Bimbingan Tugas Akhir",  "linkmeet": "xxx-yyy-zzz",  "dosenpembimbing": "Dosen B",  "tanggal": "2022-02-01",  "waktu": "16:00:00",  "status": "Disetujui",  "links": {“ ”}  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |

| **Possible Response** | **:** | **Response 1** |
| --- | --- | --- |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 1,  "namakelompok": "Kelompok 1",  "jeniskegiatan": "Bimbingan Tugas Akhir",  "linkmeet": "xxx-yyy-zzz",  "dosenpembimbing": "Dosen B",  "tanggal": "2022-02-01",  "waktu": "16:00:00",  "status": "Disetujui",  "message": "Change data successfully!"  } |
| Applied Rules | : | #26: 201(Created) indicates that a resource is successfully created. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Meeting Collection** |
| URI | : | /meeting |
| Description | : | This link will direct the user to the meeting collection API. |
| **HATEOAS Links** | **:** | **Create Data Action** |
| URI | : | /meeting/develop |
| Description | : | This link will direct the user to the add data at meeting collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | /meeting/{id}/manage |
| Description | : | This link will direct the user to the edit data at meeting collection API. |

24. Delete data Meeting Management berdasarkan id

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /meeting/{id} |
| Business process | : | [FR09] Meeting Management |
| Tujuan | : | Menghapus satu *resource* (data meeting management) dari dalam *collection* |
| Responsible Member | : | Pabertoni Panjaitan |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | DELETE |
| Authenticated? | : | Yes, with token |
| User group | : | Admin |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 1,  "dosenpembimbing": "Dosen B",  "linkmeet": "xxx-yyy-zzz",  "tanggal": "2022-02-01",  "waktu": "16:00:00",  "status": "Disetujui",  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (OK) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 1,  "dosenpembimbing": "Dosen B",  "linkmeet": "xxx-yyy-zzz", |

|  |  | "tanggal": "2022-02-01",  "waktu": "16:00:00",  "status": "Disetujui",  "message": "Delete data successfully!"  } |
| --- | --- | --- |
| Applied Rules | : | #25: 200 (OK) indicates that the request is completely executed without problems |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Meeting Collection** |
| URI | : | /meeting |
| Description | : | This link will direct the user to the meeting collection API. |
| **HATEOAS Links** | **:** | **Create Data Action** |
| URI | : | /meeting/develop |
| Description | : | This link will direct the user to the add data at meeting collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | /meeting/{id}/manage |
| Description | : | This link will direct the user to the edit data at meeting collection API. |

25. POST – Menambah Nilai

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /penilaian |
| Business process | : | [FR01] menambah nilai mahasiswa |
| Tujuan | : | Menambah satu *resource* (nilai) ke dalam *collection* |
| Responsible Member | : | Jaime Sirait (@jaimesirait) |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |

| Data structure | : | {  "namakelompok": "mantap",  "seminarnilai": "80",  "seminarstatus": "Lulus",  "tanilai": "70",  "tastatus": "Lulus",  "links": {}  } |
| --- | --- | --- |
| Applied Rules | : | #3: Hyphens “-” for a better readability  # 6: Extension should not be included  #13: Identity may be used in the store.  #14: CRUD controller should be avoided  #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "namakelompok": "mantap",  "seminarnilai": "80",  "seminarstatus": "Lulus",  "tanilai": "70",  "tastatus": "Lulus",  "links": {}  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion.  … |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": " Your request resulted in an error ", "links": {  "book\_list": "/evaluations"  } |
| Applied Rules | : | … |
| **HATEOAS Links** | **:** | **Upload task action** |
| URI | : | /seminar |
| Description | : | This link will direct the user to the seminar collection API. |
| **HATEOAS Links** | **:** | **Create Data Action** |
| URI | : | /seminar/develop |
| Description | : | This link will direct the user to the add data at seminar collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | / seminar/{id}/manage |
| Description | : | This link will direct the user to the edit data at seminar collection API. |

26. GET – menampilkan nilai

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /penilaian |
| Business process | : | [FR01] menampilkan nilai mahasiswa |
| Tujuan | : | Menampilkan satu *resource* (nilai) ke dalam *collection* |
| Responsible Member | : | Jaime Sirait (@jaimesirait) |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase  #10: Plural noun for collection |
| **Request** | | |
| HTTP Verb | : | GET |

| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| --- | --- | --- |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "namakelompok": "mantap",  "seminarnilai": "80",  "seminarstatus": "Lulus",  "tanilai": "70",  "tastatus": "Lulus",  "links": {}  } |
| Applied Rules | : | #14: CRUD controller should be avoided  #19: Using POST to create a new resource (a book) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "namakelompok": "mantap",  "seminarnilai": "80",  "seminarstatus": "Lulus",  "tanilai": "70",  "tastatus": "Lulus",  "links": {}  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion. |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": " Your request resulted in an error ", "links": {  "book\_list": "/evaluations"  } |
| Applied Rules | : | #34: 400 (Bad Request) indicates a general failure that is caused by the user |
| **HATEOAS Links** | **:** | **Upload task action** |
| URI | : | /evaluation |
| Description | : | This link will direct the user to the evaluation collection API. |
| **HATEOAS Links** | **:** | **Create Data Action** |
| URI | : | /evaluation/develop |
| Description | : | This link will direct the user to the add data at evaluation collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | / evaluation /{id}/manage |
| Description | : | This link will direct the user to the edit data at evaluation collection API. |

27. UPDATE – mengubah nilai

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /penilaian |
| Business process | : | [FR01] mengubah nilai mahasiswa |
| Tujuan | : | Mengubah satu *resource* (nilai) ke dalam *collection* |
| Responsible Member | : | Jaime Sirait (@jaimesirait) |
| Applied Rules | : | #5: Use lowercase  #10: Plural noun for collection  … |
| **Request** | | |
| HTTP Verb | : | UPDATE |

| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| --- | --- | --- |
| User group | : | Dosen |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "namakelompok": "mantap",  "seminarnilai": "70",  "seminarstatus": "Lulus",  "tanilai": "70",  "tastatus": "Lulus",  "links": {}  } |
| Applied Rules | : | #19: Using POST to create a new resource (a book)  … |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "namakelompok": "mantap",  "seminarnilai": "70",  "seminarstatus": "Lulus",  "tanilai": "70",  "tastatus": "Lulus",  "links": {}  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion.  … |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 400 (Bad Request) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "error\_message": " Your request resulted in an error ", "links": {  "book\_list": "/evaluations"  } |
| Applied Rules | : | … |
| **HATEOAS Links** | **:** | **Upload task action** |
| URI | : | /evaluation |
| Description | : | This link will direct the user to the evaluation collection API. |
| **HATEOAS Links** | **:** | **Create Data Action** |
| URI | : | /evaluation/develop |
| Description | : | This link will direct the user to the add data at evaluation collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | / evaluation /{id}/manage |
| Description | : | This link will direct the user to the edit data at evaluation collection API. |

28. GET – Menampilkan Jadwal Seminar

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /seminar/{id} |
| Business process | : | [FR08] Menampilkan *Jadwal* |
| Tujuan | : | Menampilkan *Jadwal Seminar* |
| Responsible Member | : | Petrus Sinaga |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |

| HTTP Verb | : | GET |
| --- | --- | --- |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Admin |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 2,  "namakelompok": "kelompok 1",  "dosenpembimbing": "Dosen A",  "dosenpenguji": "Dosen B",  "tanggal": "2021-11-27",  "waktu": "09:00:00",    "links": {  "Seminar": "/seminar/{id}"  }  } |
| Applied Rules | : | #14: CRUD controller should be avoided  #19: Using GET to list resource (a task) |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Data Found!!!",  "id": 2,  "namakelompok": "kelompok 1",  "dosenpembimbing": "Dosen A",  "dosenpenguji": "Dosen B",  "tanggal": "2021-11-27",  "waktu": "09:00:00"  } |
| Applied Rules | : | #26: Using 200 |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37:404 (Not Found) |
| **HATEOAS Links** | **:** | **seminar collection** |
| URI | : | “/seminar” |
| Description | : | This link will direct the user to the seminar collection API. |
| **HATEOAS Links** | **:** | **update data action** |
| URI | : | **/seminar/{id}/manage** |
| Description | : | This link will direct user to the edit data at seminar collection API. |

29. DELETE – Menghapus Jadwal Seminar

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /seminar/{id} |

| Business process | : | [FR08] Menghapus *jadwal Seminar* |
| --- | --- | --- |
| Tujuan | : | Menghapus jadwal Seminar |
| Responsible Member | : | Petrus sinaga |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | DELETE |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Librarian (*otherwise forbidden*) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 2,  "dosenpembimbing": "Dosen A",  "dosenpenguji": "Dosen B",  "tanggal": "2021-11-27",  "waktu": "09:00:00",    "links": {  "Seminar": "/seminar/{id}"  }  } |
| Applied Rules | : | #19: Using DELETE to delete a resource (a task)  Rule #23: DELETE should be used to remove a resource or to make it unavailable |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (OK) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "message": "Delete data successfully!" |
| Applied Rules | : | #26: Using 201 (Created) for successful delete jadwal |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37:404 (Not Found) |
| **HATEOAS Links** | **:** | **seminar collection** |
| URI | : | “/seminar” |
| Description | : | This link will direct the user to the seminar collection API. |
| **HATEOAS Links** | **:** | **update data action** |
| URI | : | **/seminar/{id}/manage** |
| Description | : | This link will direct user to the edit data at seminar collection API. |

30. Post - Menambahkan Jadwal Pada Lecture

| **General Information** |
| --- |

Resource URI : /lecture

| Business process | : | [FR8] Menambah *jadwal* |
| --- | --- | --- |
| Tujuan | : | Menambahkan resource jadwal kedalam store |
| Responsible  Member | : | Petrus sinaga |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token |
| User group | : | admin |
| Has payload data | : | Yes (JSON) |

Data structure : {

"namakelompok": "kelompok 4",

"dosenpembimbing": "Dosen B",

"tanggal": "2021-11-27",

"waktu": "11:00:00",

"links": {

""

}

}

| Applied Rules | : |  |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 4,  "namakelompok": "kelompok 4",  "dosenpembimbing": "Dosen B",  "tanggal": "2021-11-27",  "waktu": "11:00:00",  "message": "Insert data successfully!"  } |

Applied Rules : #26: Using 201 (Created) for successful insertion

| **Possible Response** | **:** | **Response 2** |
| --- | --- | --- |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37:404 (Not Found) |
| **HATEOAS Links** | **:** | **lecture collection** |
| URI | : | “/lecture” |
| Description | : | This link will direct the user to the lecture collection API. |
| **HATEOAS Links** | **:** | **update data action** |
| URI | : | **/lecture/{id}/manage** |
| Description | : | This link will direct user to the edit data at lecture collection API. |

31. GET - Menampilkan Jadwal Lecture

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /lecture/{id} |
| Business process | : | [FR08] Menampilkan *Jadwal Lecture* |
| Tujuan | : | Menampilkan *Jadwal Lecture* |

Responsible Member

: Petrus Sinaga

| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase |
| --- | --- | --- |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Admin |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 4,  "namakelompok": "kelompok 4",  "dosenpembimbing": "Dosen B",  "tanggal": "2021-11-27",  "waktu": "11:00:00"    "links": {  " "  }  } |

Applied Rules : #14: CRUD controller should be avoided

#19: Using GET to list resource (a task)

| **Possible Response** | **:** | **Response 1** |
| --- | --- | --- |
| HTTP Status Code | : | 200 (Created) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Data Found!!!",  "id": 4,  "namakelompok": "kelompok 4",  "dosenpembimbing": "Dosen B",  "tanggal": "2021-11-27",  "waktu": "11:00:00"  } |
| Applied Rules | : | #26: Using 200 |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37:404 (Not Found) |
| **HATEOAS Links** | **:** | **lecture collection** |
| URI | : | “/lecture” |
| Description | : | This link will direct the user to the lecture collection API. |

**HATEOAS Links : update data action**

| URI | : | **/lecuture/{id}/manage** |
| --- | --- | --- |
| Description | : | This link will direct user to the edit data at lecture collection API. |

32. Delete - Menghapus jadwal lecture

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /lecture/{id} |
| Business process | : | [FR08] Menghapus *jadwal lecture* |
| Tujuan | : | Menghapus jadwal lecture |
| Responsible  Member | : | Petrus sinaga |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | DELETE |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Librarian (*otherwise forbidden*) |
| Has payload data | : | Yes (JSON) |

Data structure : {

"id": 4,

"dosenpembimbing": "Dosen B",

"tanggal": "2021-11-27",

"waktu": "11:00:00",

"links": {

""

}

}

| Applied Rules | : | #19: Using DELETE to delete a resource (a task)  Rule #23: DELETE should be used to remove a resource or to  make it unavailable |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (OK) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "message": "Delete data successfully!" |
| Applied Rules | : | #26: Using 201 (Created) for successful delete jadwal |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |

Data structure : "Data Not Found"

| Applied Rules | : | #37:404 (Not Found) |
| --- | --- | --- |
| **HATEOAS Links** | **:** | **lecture collection** |
| URI | : | “/lecutre” |
| Description | : | This link will direct the user to the lecture collection API. |
| **HATEOAS Links** | **:** | **update data action** |
| URI | : | **/lecture/{id}/manage** |
| Description | : | This link will direct user to the edit data at lecture collection API. |

33. Menambahkan data finalization

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /finalization/develop |
| Business process | : | [FR10] Finalization |
| Tujuan | : | Menambah satu *resource* (artefak) ke dalam *collection* |
| Responsible Member | : | Pabertoni Panjaitan (@PabertoniPanjaitan) |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | POST |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "user\_id": "1",  "nama": "pabertoni panjaitan",  "deskripsi": "Artefak ini sebuah informasi digital.", "image": "12S19038.jpg",  "status": "Pending",  "links": {“ ”}  } |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |

| HTTP Status Code | : | 201 (Created) |
| --- | --- | --- |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 4,  "user\_id": "1",  "nama": "pabertoni panjaitan",  "deskripsi": "Artefak ini sebuah informasi digital.", "image": "12S19038.jpg",  "status": "Pending",  "message": "Insert data successfully!"  } |
| Applied Rules | : | #26: Using 201 (Created) for successful insertion |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Finalization Collection** |
| URI | : | “/finalization” |
| Description | : | This link will direct the user to the upload action API. |
| **HATEOAS Links** | **:** | **Create Data Finalization Action** |
| URI | : | “/finalization/develop” |
| Description | : | This link will direct user to the add data collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | /finalization/{id}/manage |
| Description | : | This link will direct the user to the edit data at finalization collection API. |
|  |  |  |
|  |  |  |
|  |  |  |

34. Melihat data Finalisasi

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /finalization/{id} |
| Business process | : | [FR10] Finalization |
| Tujuan | : | Menampilkan *resource* (data Finalisasi) |
| Responsible Member | : | Pabertoni Panjaitan (@PabertoniPanjaitan) |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | GET |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Mahasiswa |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 4,  "user\_id": 1,  "nama": "pabertoni panjaitan", |

|  |  | "deskripsi": "Artefak ini sebuah informasi digital.", "image": "12S19038.jpg",  "status": "Pending"  } |
| --- | --- | --- |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (OK) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "message": "Data Found!!!",  "id": 4,  "user\_id": 1,  "nama": "pabertoni panjaitan",  "deskripsi": "Artefak ini sebuah informasi digital.", "image": "12S19038.jpg",  "status": "Pending"  } |
| Applied Rules | : | #25: 200 (OK) indicates that the request is completely executed without problems |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Finalization Collection** |
| URI | : | “/finalization” |
| Description | : | This link will direct the user to the upload action API. |
| **HATEOAS Links** | **:** | **Create Data Finalization Action** |
| URI | : | “/finalization/develop” |
| Description | : | This link will direct user to the add data collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | /finalization/{id}/manage |
| Description | : | This link will direct the user to the edit data at finalization collection API. |
|  |  |  |
|  |  |  |
|  |  |  |

35. Mengubah data Finalisasi berdasarkan id

| **General Information** |
| --- |

Resource URI : /finalization/{id}/manage

| Business process | : | [FR10] Finalization |
| --- | --- | --- |
| Tujuan | : | Mengubah satu *resource* Finalization |
| Responsible Member | : | Pabertoni Panjaitan |
| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | PUT |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Admin |
| Has payload data | : | Yes (JSON) |

Data structure : {

"id": 4,

"user\_id": "2",

"nama": "pabertoni panjaitan",

"deskripsi": "semua",

"image": "image",

"status": "pending",

"links": {“ ”}

}

| Applied Rules | : | #1: Forward slash “/”  #2: No trailing forward slash “/”  #5: Use lowercase |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 201 (Created) |
| Has payload data | : | Yes (JSON) |

Data structure : {

"id": 4,

"user\_id": "2",

"nama": "pabertoni panjaitan",

"deskripsi": "semua",

"image": "12S19038.jpg",

"status": "pending",

"message": "Change data successfully!"

}

| Applied Rules | : | #26: 201(Created) indicates that a resource is successfully created. |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Finalization Collection** |
| URI | : | “/finalization” |

This link will direct the user to the upload action API.

Description :

| **HATEOAS Links** | **:** | **Create Data Finalization Action** |
| --- | --- | --- |
| URI | : | “/finalization/develop” |
| Description | : | This link will direct user to the add data collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | /finalization/{id}/manage |
| Description | : | This link will direct the user to the edit data at finalization collection API. |

36. DELETE – Menghapus Finalisasi

| **General Information** | | |
| --- | --- | --- |
| Resource URI | : | /finalization/{id} |
| Business process | : | [FR10] Finalization |
| Tujuan | : | Menghapus satu *resource* (Finalisasi) dalam *collection* |
| Responsible Member | : | Pabertoni Panjaitan (@PabertoniPanjaitan) |
| Applied Rules | : | #1: Forward slash “/” indicates resource  #2: No trailing forward slash “/”  #5: Use lowercase |
| **Request** | | |
| HTTP Verb | : | DELETE |
| Authenticated? | : | Yes, with token (*anonymous access is not allowed*) |
| User group | : | Librarian (*otherwise forbidden*) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 2,  "nama": "pabertoni panjaitan",  "deskripsi": "semua",  "image": "image",  "status": "pending",  } |
| Applied Rules | : | #1: Forward slash “/” |

|  |  | #2: No trailing forward slash “/”  #5: Use lowercase |
| --- | --- | --- |
| **Possible Response** | **:** | **Response 1** |
| HTTP Status Code | : | 200 (OK) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | {  "id": 2,  "nama": "pabertoni panjaitan",  "deskripsi": "semua",  "image": "image",  "status": "pending",  "message": "Delete data successfully!"  } |
| Applied Rules | : | #25: 200 (OK) indicates that the request is completely executed without problems |
| **Possible Response** | **:** | **Response 2** |
| HTTP Status Code | : | 404 (Not Found) |
| Has payload data | : | Yes (JSON) |
| Data structure | : | "Data Not Found" |
| Applied Rules | : | #37: 404 (Not Found) |
| **HATEOAS Links** | **:** | **Finalization Collection** |
| URI | : | “/finalization” |
| Description | : | This link will direct the user to the upload action API. |
| **HATEOAS Links** | **:** | **Create Data Finalization Action** |
| URI | : | “/finalization/develop” |
| Description | : | This link will direct user to the add data collection API. |
| **HATEOAS Links** | **:** | **Update Data Action** |
| URI | : | /finalization/{id}/manage |
| Description | : | This link will direct the user to the edit data at finalization collection API. |

| **INSTITUT TEKNOLOGI DEL**  **FAKULTAS INFORMATIKA DAN TEKNIK ELEKTRO**  **PROGRAM STUDI SARJANA SISTEM INFORMASI** |
| --- |

| Kelompok : 3 | | |
| --- | --- | --- |
| Topik Proyek | : | MANTA - Manajemen Tugas Akhir |
| Anggota | : | 12S19020 -Imelda Sarah Dwiva Siregar  12S19025 - Petrus Aquanur Sinaga  12S19030 - Jaime Christ Bonar Sirait  12S19033 - San Antonio Limbong  12S19038 - Pabertoni Panjaitan |
| Link Presentasi | : |  |

**WEB TESTING**

1. FR01 - Login

● Login - POST

| **Test ID** | FR01-01 |
| --- | --- |
| **FR/NFR ID** | FR01 – Login |
| **Test Name** | Login kedalam sistem dengan inputan (username and password) |
| **Objective** | Memastikan user dapat login |
| **Description** | Login ini merupakan bagian dari tindakan keamanan untuk meningkatkan keamanan sistem dengan mengautentikasi penggunanya. Tes ini dimaksudkan untuk mengecek data user yang diinput. |
| **Precondition** | User Belum Login |
| **Programmer** | San Antonio Limbong |
| **Date** | 27 November 2021 15.00 |
| **Tester** | Jaime Sirait |
| **Testing Scenario** | |
| User berada di halaman login | |

| User memasukkan Username dan Password  Melakukan Login | | | | |
| --- | --- | --- | --- | --- |
| **Evaluation Criteria** | | | | |
| Inputan yang dimasukkan cocok dengan data yang tersimpan di database sehingga dapat masuk ke halaman utama(Dashboard) | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR01-01-01 | User melakukan login dengan telah melakukan register (data user telah tersimpan di database).  Username: iss19030  Password: 19030 | akan berhasil login dan menampilkan halaman utama(Dashboard) | berhasil login dan menampilkan halaman utama(Dashboard) | [x] passed  [ ] failed |
| FR01-01-02 | User melakukan login tanpa  melakukan register(data user tidak ada di dalam database)  Username: Ucok  Password: baba | tidak akan berhasil login dan menampilkan login) | tidak berhasil login dan  menampilkan halaman login | [x] passed  [ ] failed |
| **Notes** | | | | |
|  | | | | |

● Login - POST-API

| **Test ID** | FR01-01-API |
| --- | --- |
| **FR/NFR ID** | FR01 – Login |
| **Test Name** | Login kedalam sistem dengan inputan (username and password) |
| **Objective** | Memastikan user dapat login |
| **Description** | Login ini merupakan bagian dari tindakan keamanan untuk meningkatkan keamanan sistem dengan mengautentikasi penggunanya. Tes ini dimaksudkan untuk mengecek data user yang diinput. |
| **Precondition** | Terdapat Users Collection pada database |
| **Programmer** | Jaime Sirait |
| **Date** | 7 Desember 2021 14.10 |
| **Tester** | Jaime Sirait |
| **Testing Scenario** | |

| Membuat sebuah request dan menyesuaikan URI  Merubah request method menjadi POST  Mengisi data pada body sesuai atribut dalam bentuk JSON | | | | |
| --- | --- | --- | --- | --- |
| **Evaluation Criteria** | | | | |
| Inputan yang dimasukkan cocok dengan data yang tersimpan di database sehingga dapat masuk ke halaman utama(Dashboard) | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR01-01-API-01 | User melakukan login dengan telah melakukan register (data user telah tersimpan di database).  Username: iss19030  Password: 19030 | akan berhasil dan  menampilkan response status code  200(OK),links menuju api collection yang  terkait serta output  berupa JSON yang berisi Message serta data yang telah ditambahkan  sebelumnya. | berhasil dan menampilkan  response status code  200(OK),links menuju api  collection yang terkait serta output berupa JSON yang berisi Message serta data yang telah ditambahkan sebelumnya. | [x] passed  [ ] failed |
| FR01-01-API-02 | User melakukan login tanpa  melakukan register(data user tidak ada di dalam database)  Username: Ucok  Password: baba | tidak akan berhasil dan menampilkan response code  401(Unauthorized),links menuju api collection yang terkait serta  output berupa JSON yang berisi Message serta data yang telah ditambahkan  sebelumnya. | tidak berhasil dan menampilkan response code  401(Unauthorized),links menuju api collection yang terkait serta output berupa JSON yang berisi  Message serta data yang telah ditambahkan sebelumnya. | [x] passed  [ ] failed |
| **Notes** | | | | |
|  | | | | |

2. FR02 - Register

● Register - POST

| **Test ID** | FR01-02 | | | |
| --- | --- | --- | --- | --- |
| **FR/NFR ID** | FR01 - Register | | | |
| **Test Name** | Menambahkan akun admin | | | |
| **Objective** | Untuk menambah akun admin baru ke dalam sistem | | | |
| **Description** | Testing ini bertujuan memastikan akun admin yang telah ditambahkan dapat tersimpan di dalam database sesuai dengan dengan data yang dimasukkan pada saat register. | | | |
| **Precondition** | Admin Manta belum memiliki akun | | | |
| **Programmer** | San Antonio Limbong | | | |
| **Date** | 7 Desember 2021 15.00 | | | |
| **Tester** | Jaime Sirait | | | |
| **Testing Scenario** | | | | |
| User berada di halaman Register  User mengisi form yang telah disediakan  Melakukan Register | | | | |
| **Evaluation Criteria** | | | | |
| Form yang telah diisi berhasil tersimpan di database sehingga Admin dapat Login | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR02-01-01 | Memasukkan data sesuai form  Nama Lengkap: Jaime Sirait  Username: iss19030  Email: jaimesirait@gmail.com  NIM: 12S19030  Password: jaime123 | akan berhasil masuk ke  database dan berhasil login | berhasil masuk ke  database dan berhasil login | [x] passed  [ ] failed |
| FR02-01-02 | Memasukkan data yang tidak sesuai form Nama Lengkap: Jaime Sirait  Username: iss19030  Email: jaimesirait@gmail.com  Password: jaime123 | tidak akan berhasil dan system akan memberikan peringatan untuk mengisi baris nim yang kosong | tidak berhasil dan system akan memberikan  peringatan untuk mengisi baris nim yang kosong | [x] passed  [ ] failed |
| **Notes** | | | | |
|  | | | | |

● Register - POST-API

| **Test ID** | FR01-02 | | | |
| --- | --- | --- | --- | --- |
| **FR/NFR ID** | FR01 - Register | | | |
| **Test Name** | Menambahkan akun ke database | | | |
| **Objective** | Untuk menambah akun baru ke dalam database | | | |
| **Description** | Testing ini bertujuan memastikan akun yang telah ditambahkan dapat tersimpan di dalam database sesuai dengan dengan data yang dimasukkan pada saat register. | | | |
| **Precondition** | Terdapat Users Collection pada database | | | |
| **Programmer** | San Antonio Limbong | | | |
| **Date** | 27 November 2021 15.20 | | | |
| **Tester** | Jaime Sirait | | | |
| **Testing Scenario** | | | | |
| Membuat sebuah requests dengan menyesuaikan URI  Menyesuaikan request method menjadi POST  Mengisi data pada body sesuai atribut untuk dikirim dalam bentuk JSON. | | | | |
| **Evaluation Criteria** | | | | |
| data berhasil tersimpan di tabel users sehingga akun yang baru di register dapat Login | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR02-01-API-01 | Memasukkan data sesuai form  Nama Lengkap: Jaime Sirait  Username: iss19030  Email: jaimesirait@gmail.com  NIM: 12S19030  Password: jaime123 | akan berhasil masuk ke  database dan menampilkan response status code 200(OK) ,output berupa JSON yang berisi Message serta data yang telah ditambahkan sebelumnya. | berhasil masuk ke  database dan berhasil login | [x] passed  [ ] failed |
| FR02-01-API-02 | Memasukkan data yang tidak sesuai form  Nama Lengkap: Jaime Sirait  Username: iss19030  Email: jaimesirait@gmail.com  Password: jaime123 | tidak akan berhasil masuk ke database dan menampilkan response status code 400 (Bad Request) | tidak berhasil masuk ke database dan  Menampilkan response status code 500 (Internal Server Error). | [ ] Passed  [X] Failed |
| **Notes** | | | | |
|  | | | | |

**3. FR03-Home**

● **Announcement - POST**

| **Test ID** | FR03-01 | | | |
| --- | --- | --- | --- | --- |
| **FR/NFR ID** | FR03 - Home | | | |
| **Test Name** | Menambah Pengumuman pada tabel Announcement yang akan ditampilkan di halaman Home | | | |
| **Objective** | Untuk memastikan bahwa data pengumuman yang ditambah tersimpan dalam database  dan akan ditampilkan pada halaman Home. | | | |
| **Description** | Mekanisme ini adalah bagian untuk menambah pengumuman kedalam tabel Announcement yang ada di database, sehingga dosen dapat membuat pengumuman yang dapat dilihat oleh mahasiswa. Test ini digunakan untuk memastikan bahwa data yang diinput sesuai dengan atribut yang terdapat pada tabel Announcement, sehingga ketika input data berbeda dengan atribut yang ada, maka data tidak disimpan pada tabel Announcement, serta menyediakan notifikasi peringatan apabila terjadi kesalahan dalam mengisi data. | | | |
| **Precondition** | Dosen sudah melakukan login terlebih dahulu dan ingin menambah pengumuman | | | |
| **Programmer** | San Antonio Limbong | | | |
| **Date** | 27 November 2021 16:00 WIB | | | |
| **Tester** | San Antonio Limbong | | | |
| **Testing Scenario** | | | | |
| 1. Berada pada halaman Tambah Pengumuman(/home/develop).  2. Mengisi data pada form tambah pengumuman | | | | |
| **Evaluation Criteria** | | | | |
| 1. Data berhasil diinput dan disimpan ke dalam tabel Announcement pada database.  2. Data akan ditampilkan pada halaman Home | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR03-01-01 | Dosen menginput data dengan benar sesuai dengan atribut tabel Announcement.  Judul Pengumuman:  Pengumuman 2  Deskripsi : lorem ipsum | Data yang ditambah akan  berhasil disimpan dalam  database,akan terjadi redirect link menuju halaman  Home(/home) serta data yang baru ditambah akan ditampilkan pada list pengumuman | Data yang ditambah berhasil  disimpan dalam database, terjadi redirect link menuju halaman  Home(/home) serta data yang baru ditambah ditampilkan pada list pengumuman | [x] Passed  [ ] Failed |

| FR03-01-02 | Dosen tidak menginput data dengan benar sesuai dengan atribut tabel Announcement. judul: Pengumuman 2 | Data yang diubah tidak akan berhasil di submit dan akan menampilkan notifikasi field harus diisi serta akan masih tetap berada pada halaman Tambah Pengumuman  (/home/develop) | Data yang diubah tidak berhasil di submit dan menampilkan notifikasi field harus diisi serta masih tetap berada pada halaman Tambah Pengumuman (/home/develop) | [x] Passed  [ ] Failed |
| --- | --- | --- | --- | --- |
| **Notes** | | | | |
| Pengujian kasus berjalan dengan baik sesuai dengan ekspektasi | | | | |

| **Test ID** | FR03-01-API | | | |
| --- | --- | --- | --- | --- |
| **FR/NFR ID** | FR03 - Home | | | |
| **Test Name** | Menambah Pengumuman pada tabel Announcement | | | |
| **Objective** | Untuk memastikan bahwa data pengumuman yang ditambah tersimpan dalam database | | | |
| **Description** | Mekanisme ini adalah bagian untuk menambah pengumuman kedalam tabel Announcement yang ada di database, sehingga dosen dapat membuat pengumuman yang dapat dilihat oleh mahasiswa. Test ini digunakan untuk memastikan bahwa data yang diinput sesuai dengan atribut yang terdapat pada tabel Announcement, sehingga ketika input data berbeda dengan atribut yang ada, maka data tidak disimpan pada tabel Announcement, serta menyediakan message berupa status keadaan request. | | | |
| **Precondition** | Terdapat Announcement Collection pada database | | | |
| **Programmer** | San Antonio Limbong | | | |
| **Date** | 27 November 2021 16:00 WIB | | | |
| **Tester** | San Antonio Limbong | | | |
| **Testing Scenario** | | | | |
| 3. Membuat sebuah requests dengan menyesuaikan URI (/api/announcement).  4. Menyesuaikan request method menjadi POST.  5. Mengisi data pada body sesuai atribut untuk dikirim dalam bentuk JSON. | | | | |
| **Evaluation Criteria** | | | | |
| 1. Data berhasil diinput dan disimpan ke dalam tabel Announcement pada database. | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |

| FR03-01-API-01 | Form diisi dengan benar sesuai dengan atribut tabel  Announcement .  judul: Pengumuman 2  deskripsi : lorem ipsum | Akan ditampilkan response status code 201 (Created),links menuju api collection yang terkait serta output berupa JSON yang berisi Message serta data yang telah ditambahkan  sebelumnya. | Menampilkan response status code 201 (Created),links menuju api collection yang terkait serta output berupa JSON yang berisi Message serta data yang telah ditambahkan sebelumnya. | [X] Passed  [ ] Failed |
| --- | --- | --- | --- | --- |
| FR03-01-API-02 | Form deskripsi tidak di isi sesuai dengan atribut tabel  Announcement .  judul: Pengumuman 2 | Akan ditampilkan response status code 400 (Bad Request), serta links menuju api yang terkait. | Menampilkan response status code 500 (Internal Server Error). | [ ] Passed  [X] Failed |
| **Notes** | | | | |
| Melakukan testing kedua kalinya pada case kedua tetapi gagal | | | | |

**Announcement - PUT**

| **Test ID** | FR03-02 |
| --- | --- |
| **FR/NFR ID** | FR03 - Home |
| **Test Name** | Mengubah Pengumuman pada tabel Announcement yang akan ditampilkan di halaman Home |
| **Objective** | Untuk memastikan bahwa data pengumuman yang telah diubah tersimpan dalam database  dan perubahan data akan ditampilkan pada halaman Home. |
| **Description** | Mekanisme ini adalah bagian untuk mengubah data pengumuman yang sebelumnya telah ditambahkan pada tabel Announcement yang ada di database, sehingga dosen dapat mengubah informasi pengumuman sehingga dapat dilihat oleh mahasiswa. Test ini digunakan untuk memastikan bahwa data yang diubah sesuai dengan atribut yang terdapat pada tabel Announcement, sehingga ketika input data berbeda dengan atribut yang ada, maka perubahan data tidak disimpan pada tabel Announcement, serta menyediakan notifikasi peringatan apabila terjadi kesalahan dalam mengubah data. |
| **Precondition** | 1. Dosen sudah pernah membuat data Pengumuman melalui web yang disimpan pada database 2. Dosen sudah melakukan login terlebih dahulu dan sedang mengakses halaman Home  3. Dosen ingin melakukan perubahan data pengumuman |
| **Programmer** | San Antonio Limbong |
| **Date** | 27 November 2021 17:00 WIB |
| **Tester** | San Antonio Limbong |

| **Testing Scenario** | | | | |
| --- | --- | --- | --- | --- |
| 1. Mengakses halaman Home serta memilih Pengumuman yang akan diubah  2. Berada pada halaman Ubah Pengumuman (/home/{id}/manage).  3. Mengisi data pada form ubah pengumuman | | | | |
| **Evaluation Criteria** | | | | |
| 1. Data berhasil diubah dan perubahan disimpan ke dalam tabel Announcement pada database.  2. Data yang berhasil diubah akan ditampilkan pada halaman Home | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR05-02-01 | Dosen menginput data yang akan diubah dengan benar sesuai dengan atribut tabel Announcement.  Judul Pengumuman: Pengumuman 1  Deskripsi : lorem ipsum | Data yang diubah akan berhasil disimpan dalam database,akan terjadi redirect link menuju halaman Home(/home) serta data yang baru diubah akan ditampilkan pada list  pengumuman | Data yang diubah berhasil disimpan dalam database, terjadi redirect link menuju halaman Home(/home) serta data yang baru diubah ditampilkan pada list pengumuman | [x] Passed  [ ] Failed |
| FR05-02-02 | Dosen tidak menginput data dengan benar sesuai dengan atribut tabel Announcement.  judul: Pengumuman 2 | Data yang diubah tidak akan berhasil di submit dan akan menampilkan notifikasi field harus diisi serta akan masih tetap berada pada halaman Ubah Pengumuman  (/home/{id}/manage) | Data yang diubah tidak berhasil di submit dan menampilkan notifikasi field harus diisi serta masih tetap berada pada halaman Ubah  Pengumuman (/home/{id}/manage) | [x] Passed  [ ] Failed |
| **Notes** | | | | |
| Pengujian kasus berjalan dengan baik sesuai dengan ekspektasi | | | | |

| **Test ID** | FR03-02-API |
| --- | --- |
| **FR/NFR ID** | FR03 - Home |
| **Test Name** | Mengubah data pengumuman pada form Announcement |
| **Objective** | Untuk memastikan bahwa data pendaftaran yang diubah tersimpan dalam database |
| **Description** | Mekanisme ini adalah bagian untuk mengubah data yang sebelumnya ditambah pada tabel Announcement yang ada di database, sehingga mahasiswa dapat mengubah data dalam rangka pendaftaran mahasiswa Tugas Akhir. Test ini digunakan untuk memastikan bahwa data yang diubah sesuai dengan atribut yang terdapat pada tabel Announcement, |

|  | sehingga ketika input data berbeda dengan atribut yang ada, maka data tidak disimpan pada tabel Announcement, serta menyediakan message berupa status keadaan request. | | | |
| --- | --- | --- | --- | --- |
| **Precondition** | Terdapat Announcement Collection pada database | | | |
| **Programmer** | San Antonio Limbong | | | |
| **Date** | 27 November 2021 13:15 WIB | | | |
| **Tester** | San Antonio Limbong | | | |
| **Testing Scenario** | | | | |
| 3. Membuat requests URI (/api/home).  4. Menambahkan ID data yang diubah pada URI (/api/home/{id}/manage)  5. Menyesuaikan request method menjadi PUT.  6. Mengisi data pada body sesuai atribut untuk dikirim dalam bentuk JSON. | | | | |
| **Evaluation Criteria** | | | | |
| Data yang diubah disimpan ke dalam tabel Announcement pada database. | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR05-02-API-01 | Menginput data yang akan diubah dengan benar pada body yang akan dikirimkan melalui request:  judul : Pengumuman 1  deskripsi : Lorem Ipsum | Akan ditampilkan response status code 201 (Created),links menuju api collection yang terkait serta output berupa JSON yang berisi Message serta data yang telah diubah sebelumnya. | Menampilkan response status code 201 (Created),links menuju api collection yang terkait serta output berupa JSON yang berisi Message serta data yang telah diubah  sebelumnya. | [X] Passed  [ ] Failed |
| FR05-02-API-02 | Menginput data yang akan diubah dengan benar pada body yang akan dikirimkan melalui request:  judul : Pengumuman 1  deskripsi : Lorem Ipsum. Namun tidak tersedia id yang dituju pada database | Akan ditampilkan response status code 400 (Bad Request) dan output berupa JSON yang berisi Error Message, serta links menuju api collection yang terkait. | Menampilkan response status code 400 (Bad Request) dan output berupa JSON yang berisi Error Message, serta links menuju api collection yang terkait. | [X] Passed  [ ] Failed |
| **Notes** | | | | |
| Pengujian kasus berjalan dengan baik sesuai dengan ekspektasi | | | | |

**Announcement - DELETE**

| **Test ID** | FR03-03 | | | |
| --- | --- | --- | --- | --- |
| **FR/NFR ID** | FR03 - Home | | | |
| **Test Name** | Menghapus Pengumuman pada tabel Announcement yang akan ditampilkan di halaman Home | | | |
| **Objective** | Untuk memastikan bahwa data pengumuman yang telah dihapus tidak tersedia lagi pada database dan perubahan data akan ditampilkan pada halaman Home. | | | |
| **Description** | Mekanisme ini adalah bagian untuk menghapus data pengumuman yang sebelumnya telah ditambahkan pada tabel Announcement yang ada di database, sehingga dosen dapat menghapus pengumuman yang tidak lagi relevan. Test ini digunakan untuk memastikan bahwa data yang dihapus tidak tersedia pada tabel Announcement, serta menyediakan notifikasi peringatan apabila ingin menghapus pengumuman. | | | |
| **Precondition** | 1. Dosen sudah pernah membuat data Pengumuman melalui web yang disimpan pada database 2. Dosen sudah melakukan login terlebih dahulu dan sedang mengakses halaman Home  3. Dosen ingin melakukan menghapus data pengumuman | | | |
| **Programmer** | San Antonio Limbong | | | |
| **Date** | 27 November 2021 17:00 WIB | | | |
| **Tester** | San Antonio Limbong | | | |
| **Testing Scenario** | | | | |
| 1. Mengakses halaman Home serta memilih Pengumuman yang akan dihapus | | | | |
| **Evaluation Criteria** | | | | |
| 1. Data berhasil dihapus dan perubahan disimpan ke dalam tabel Announcement pada database.  2. Data yang berhasil dihapus tidak akan ditampilkan pada halaman Home | | | | |
| **Test Cases** | | | | |
| **ID** | **Input** | **Expected Behavior** | **Actual Behavior** | **Verdict** |
| FR05-03-01 | Dosen melakukan penghapusan pengumuman dengan menekan tombol hapus pada kolom aksi. | Data yang telah dihapus tidak akan di list pengumuman yang terdapat pada halaman Home (/home) | Data yang telah dihapus tidak di list pengumuman yang terdapat pada halaman Home (/home) | [x] Passed  [ ] Failed |
| **Notes** | | | | |
| Pengujian kasus berjalan dengan baik sesuai dengan ekspektasi | | | | |