

Nama : Windiany Lestari Sitorus

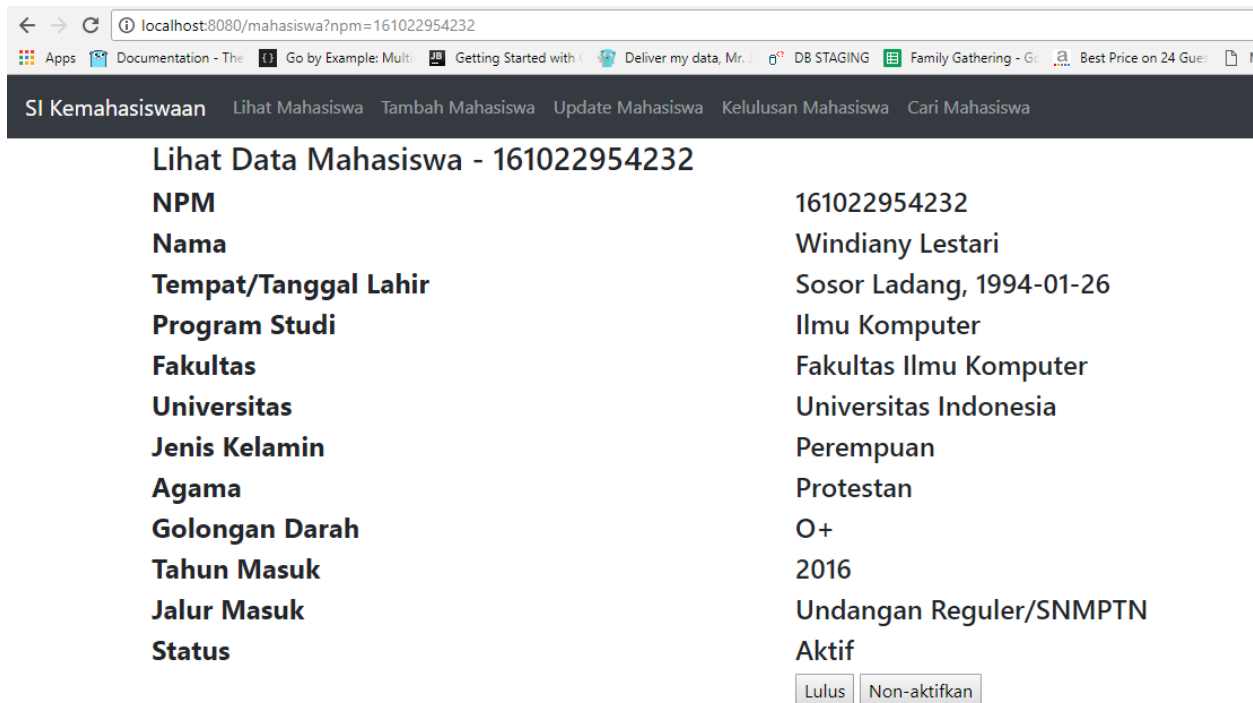
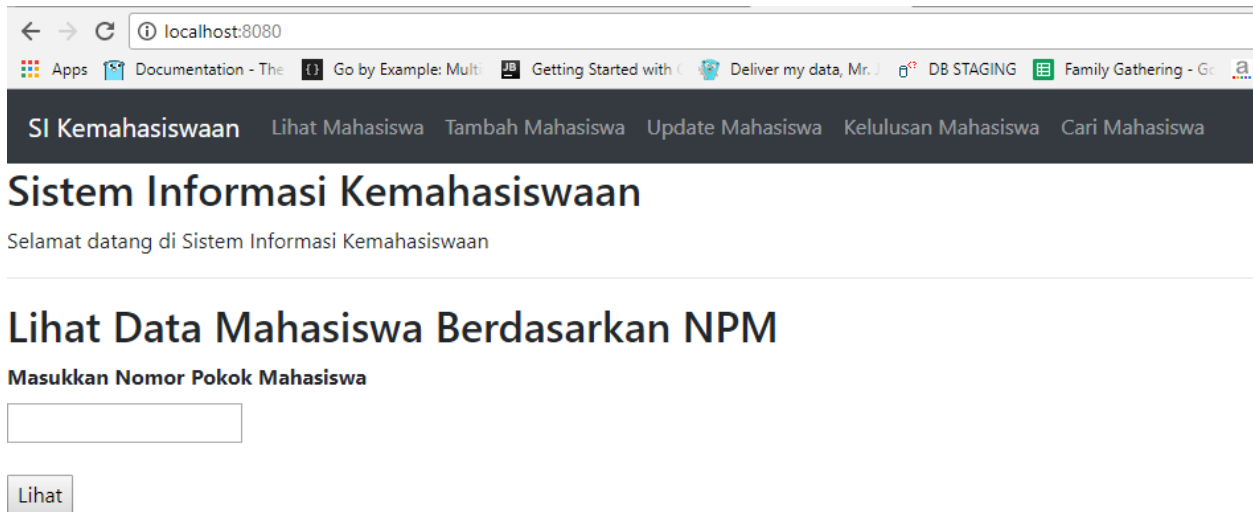
Kelas : Ekstensi

NPM : 1606955063

Write Up Tugas 1

Fitur 1 Menampilkan Data Mahasiswa

Berhasil dilakukan, dapat diakses dari Menu Lihat Mahasiswa.



Fitur 2 Menambahkan Data Mahasiswa

Berhasil dilakukan, dapat diakses dari Menu Tambah Mahasiswa.

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa

Tambah Mahasiswa

Nama Lengkap
Ayu Nainggolan

Tempat Lahir
Tarutung

Tanggal Lahir
05/05/1994

Jenis Kelamin
Wanita

Agama
Protestan

Golongan Darah
O+

Tahun Masuk

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa

Data berhasil ditambahkan

Mahasiswa dengan 161022953199 berhasil ditambahkan

Fitur 3 Mengubah Data Mahasiswa

Berhasil dilakukan, dapat diakses dari Menu Update Mahasiswa. Akan dimulai menampilkan seluruh data mahasiswa kemudian update. Dan nilai NPM juga akan berubah apabila ada perubahan terhadap elemen NPM.

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa Mahasiswa Muda Mahasiswa Tua

No	NPM	Name	Action
1	141022954230	Dr. Dangelo Kunze II	Update Data
2	141023153001	Consuelo Schultz	Update Data
3	161023353001	Gage Baumbach	Update Data
4	145024455001	Loyal Weissnat	Update Data
5	172011862001	Berry Klocko	Update Data
6	151023062001	Mica Tianna Crist	Update Data

← → ↻ localhost:8080/mahasiswa/ubah/141022954230

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa Mahasiswa Muda Mahasiswa Tua

Update Mahasiswa

NPM

Nama Lengkap

Tempat Lahir

Tanggal Lahir

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa Mahasiswa Muda Mahasiswa Tua

Data berhasil diupdate

No	NPM	Nama Lengkap	Aksi
1	141082754151	Dr. Dangelo Kunze I	Update Data

Fitur 4 Menampilkan Presentase Kelulusan Mahasiswa pada Tahun dan Prodi Tertentu

Berhasil dilakukan, dapat diakses dari Menu Kelulusan Mahasiswa.

← → ↻ localhost:8080/kelulusan

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa Mahasiswa Muda Mahasiswa Tua

Presentase Kelulusan

Tahun

Id Program Studi

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa Mahasiswa Muda Mahasiswa Tua

Presentase Kelulusan

Tahun	2016
Program Studi	Ilmu Komputer
Fakultas	Fakultas Ilmu Komputer
Universitas	Universitas Indonesia
Persentase	23%
	7 dari 30 Mahasiswa Telah Lulus

Fitur 5 Menampilkan Data Mahasiswa berdasarkan Universitas, Fakultas dan Prodi Tertentu

Berhasil dilakukan, dapat diakses dari Menu Cari Mahasiswa.

← → ↻

localhost:8080/mahasiswa/cariUniv

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Apps Documentation - The Go by Example: Multi Getting Started with Deliver my data, Mr. DB STAGING Family Gathering - Go Best Price on 24 Gue MIRA PROD W

SI Kemahasiswaan

Lihat MahasiswaTambah MahasiswaUpdate MahasiswaKelulusan MahasiswaCari MahasiswaMahasiswa MudaMahasiswa Tua

Cari Mahasiswa

Pilih Universitas

Institut Teknologi Bandung

Cari

← → ↻

localhost:8080/mahasiswa/cariFakultas?universitas=2

☆

Apps Documentation - The Go by Example: Multi Getting Started with Deliver my data, Mr. DB STAGING Family Gathering - Go Best Price on 24 Gue MIRA PROD W

SI Kemahasiswaan

Lihat MahasiswaTambah MahasiswaUpdate MahasiswaKelulusan MahasiswaCari MahasiswaMahasiswa MudaMahasiswa Tua

Cari Mahasiswa

Pilih Universitas

Universitas Indonesia

Pilih Fakultas

Fakultas Kedokteran

Cari

← → ↻

localhost:8080/mahasiswa/cariProdi?universitas=2&fakultas=11

☆

Apps Documentation - The Go by Example: Multi Getting Started with Deliver my data, Mr. DB STAGING Family Gathering - Go Best Price on 24 Gue MIRA PROD W

SI Kemahasiswaan

Lihat MahasiswaTambah MahasiswaUpdate MahasiswaKelulusan MahasiswaCari MahasiswaMahasiswa MudaMahasiswa Tua

Cari Mahasiswa

Pilih Universitas

Universitas Indonesia

Pilih Fakultas

Fakultas Ilmu Komputer

Pilih Prodi

Ilmu Komputer

Cari

All Students

Show 10 entries

Search:

No	NPM	Name	Program Studi	Tahun Masuk	Jalur Masuk	Detail Mahasiswa
1	151023062001	Miss Tianna Crist	Sistem Informasi	2015	Ujian Tulis Mandiri	Lihat Detail
2	171023055002	Maymie Walker	Sistem Informasi	2017	Undangan Paralel/PPKB	Lihat Detail
3	141023055003	Ms. Ernestina Schmitt DDS	Sistem Informasi	2014	Undangan Paralel/PPKB	Lihat Detail
4	171023055004	Dr. Hector McLaughlin Sr.	Sistem Informasi	2017	Undangan Paralel/PPKB	Lihat Detail
5	151023055005	Dr. Lora Turner	Sistem Informasi	2015	Undangan Paralel/PPKB	Lihat Detail
6	141023053006	Dylan Moore	Sistem Informasi	2014	Undangan Olimpiade	Lihat Detail
7	161023053007	Tremaine Heidenreich	Sistem Informasi	2016	Undangan Olimpiade	Lihat Detail
8	151023054008	Dr. Brennan Purdy	Sistem Informasi	2015	Undangan Reguler/SNMPTN	Lihat Detail
9	161023054009	Betsy Weimann	Sistem Informasi	2016	Undangan Reguler/SNMPTN	Lihat Detail
10	151023053010	Darron Johnson	Sistem Informasi	2015	Undangan Olimpiade	Lihat Detail

Showing 1 to 10 of 98 entries

Previous 1 2 3 4 5 ... 10 Next

Fitur 6 Validasi Input Untuk Semua Form Post [BONUS]

Akan ada validasi terhadap semua input field saat dimana user harus mengisi semua input field (required).

Nama Lengkap

Nama Lengkap

Tempat Lahir

! Please fill out this field.

Tempat Lahir

Tanggal Lahir

! Please fill out this field.

Tanggal Lahir

mm/dd/yyyy

Jenis Kelamin

! Please fill out this field.

Jenis Kelamin

Jenis Kelamin

Agama

! Please select an item in the list.

Agama

Agama

Golongan Darah

! Please select an item in the list.

Golongan Darah

Pilih Golongan Darah

Tahun Masuk

! Please select an item in the list.

Tahun Masuk

Jalur Masuk

ID Program Studi

Please fill out this field.

Please fill out this field.

Fitur 7 Menampilkan Mahasiswa Paling Muda dan Paling Tua di Suatu Program Studi Pada Angkatan Tertentu **[BONUS]**

Berhasil dikerjakan, dapat diakses dari Mahasiswa Muda dan Mahasiswa Tua

← → ↻ localhost:8080/mahasiswa/cariMuda

Apps Documentation - The Go by Example: Multi Getting Started with Deliver my data, Mr. DB STAGING Family Gathering - G Best Price on 24 Gue MIRA PROD W

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa Mahasiswa Muda Mahasiswa Tua

Search Mahasiswa Muda

Tahun Masuk

Id Program Studi

Lihat

← → ↻ localhost:8080/mahasiswa/cariMahasiswaMuda?thn=2016&id_prodi=21

Apps Documentation - The Go by Example: Multi Getting Started with Deliver my data, Mr. DB STAGING Family Gathering - G Best Price on 24 Gue MIRA PROD W

SI Kemahasiswaan Lihat Mahasiswa Tambah Mahasiswa Update Mahasiswa Kelulusan Mahasiswa Cari Mahasiswa Mahasiswa Muda Mahasiswa Tua

Lihat Data Mahasiswa - 161022962169

NPM	161022962169
Nama	Clemens Huels
Tempat/Tanggal Lahir	Bednarfort, 1996-02-20
Program Studi	Ilmu Komputer
Fakultas	Fakultas Ilmu Komputer
Universitas	Universitas Indonesia
Jenis Kelamin	Perempuan
Agama	Konghucu
Golongan Darah	AB+
Tahun Masuk	2016
Jalur Masuk	Ujian Tulis Mandiri
Status	Lulus

Lulus Non-aktifkan

SI Kemahasiswaan
Lihat Mahasiswa
Tambah Mahasiswa
Update Mahasiswa
Kelulusan Mahasiswa
Cari Mahasiswa
Mahasiswa Muda
Mahasiswa Tua

Search Mahasiswa Tua

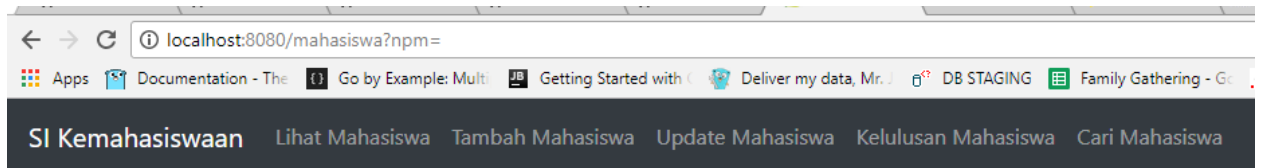
Tahun Masuk

Id Program Studi

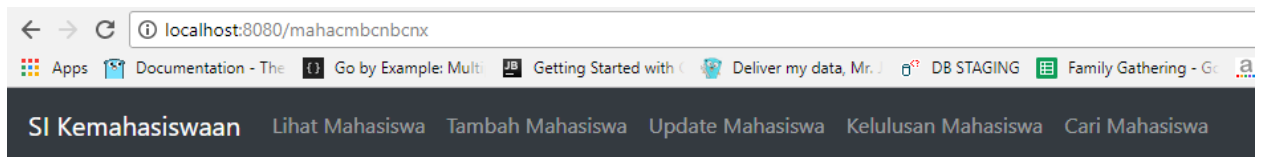
Lihat

Fitur 8 Menambahkan Error Page **[BONUS]**

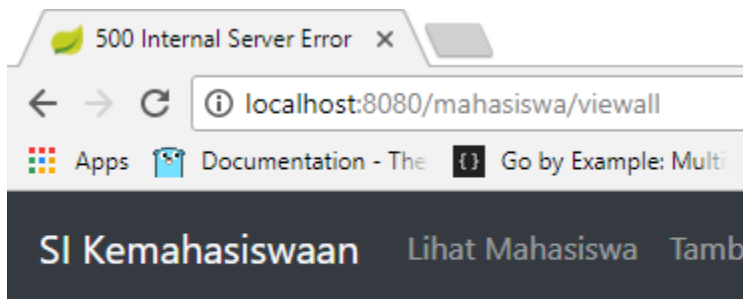
- Akan ada error page saat NPM tidak ditemukan



- Error 404



- Error 500



Internal Server Error

Fitur 9 Menambahkan Fitur-Fitur Lain yang Mendukung Aplikasi **[BONUS]**

- Apabila menambahkan mahasiswa dengan NPM yang telah ada maka akan dialihkan ke halaman "already-add".
- Menampilkan detail dari mahasiswa di data table mahasiswa setelah menggunakan fitur Cari Mahasiswa

All Students

Show entries

Search:

No	NPM	Name	Program Studi	Tahun Masuk	Jalur Masuk	Detail Mahasiswa
1	151023062001	Miss Tianna Crist	Sistem Informasi	2015	Ujian Tulis Mandiri	Lihat Detail
2	171023055002	Maymie Walker	Sistem Informasi	2017	Undangan Paralel/PPKB	Lihat Detail
3	141023055003	Ms. Ernestina Schmitt DDS	Sistem Informasi	2014	Undangan Paralel/PPKB	Lihat Detail
4	171023055004	Dr. Hector McLaughlin Sr.	Sistem Informasi	2017	Undangan Paralel/PPKB	Lihat Detail
5	151023055005	Dr. Lora Turner	Sistem Informasi	2015	Undangan Paralel/PPKB	Lihat Detail
6	141023053006	Dylan Moore	Sistem Informasi	2014	Undangan Olimpiade	Lihat Detail
7	161023053007	Tremaine Heidenreich	Sistem Informasi	2016	Undangan Olimpiade	Lihat Detail
8	151023054008	Dr. Brennan Purdy	Sistem Informasi	2015	Undangan Reguler/SNMPTN	Lihat Detail
9	161023054009	Betsy Weimann	Sistem Informasi	2016	Undangan Reguler/SNMPTN	Lihat Detail
10	151023053010	Darron Johnson	Sistem Informasi	2015	Undangan Olimpiade	Lihat Detail

Showing 1 to 10 of 98 entries

Previous 2 3 4 5 ... 10 Next

← → ↻

localhost:8080/mahasiswa?npm=151023062001

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Apps Documentation - Thi Go by Example: Multi Getting Started with Deliver my data, Mr. DB STAGING Family Gathering - G Best Price on 24 Gue MIRA PROD Windi - November 20»

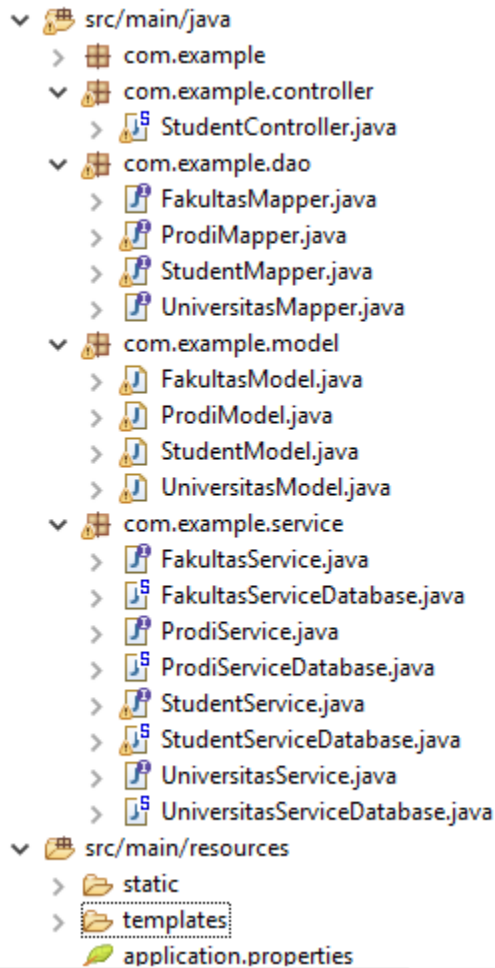
SI Kemahasiswaan [Lihat Mahasiswa](#) [Tambah Mahasiswa](#) [Update Mahasiswa](#) [Kelulusan Mahasiswa](#) [Cari Mahasiswa](#) [Mahasiswa Muda](#) [Mahasiswa Tua](#)

Lihat Data Mahasiswa - 151023062001

NPM	151023062001
Nama	Miss Tianna Crist
Tempat/Tanggal Lahir	South Faustoburgh, 1970-04-03
Program Studi	Sistem Informasi
Fakultas	Fakultas Ilmu Komputer
Universitas	Universitas Indonesia
Jenis Kelamin	Perempuan
Agama	Hindu
Golongan Darah	A-
Tahun Masuk	2015
Jalur Masuk	Ujian Tulis Mandiri
Status	Aktif

Penerapan Konsep MVC dan Layering

Implementasi ini menggunakan konsep MVC dimana ada Model, Controller dan View. Dan juga ada service dan mapper yang berfungsi sebagai akses ke database. Juga ada penerapan fragment untuk define bagian header sehingga tidak perlu buat code yang banyak di setiap halaman untuk membuat header.



Optimasi Database dan Testing

Optimasi database yang saya lakukan adalah melakukan indexing di setiap primary key pada semua table yang ada pada database si_kemahasiswaan. Dan hasil dari optimasi yang saya lakukan adalah nilai averagenya semakin rendah (semakin cepat tingkat pengaksesannya) kecuali pada fitur menampilkan persentasi, dimana nilai average nya tetap. Dan dari sebelum dan sesudah optimasi nilai average yang paling tinggi adalah fitur mencari mahasiswa, dikarenakan butuh beberapa kali proses dalam pencarian mahasiswa, dimana pencarian universitas, kemudian fakultas dan prosi.

Saat melakukan load testing, saya set number of threads 100, ramp up 10 detik dan loop count 1.

Thread Properties

Number of Threads (users): 100

Ramp-Up Period (in seconds): 10

Loop Count: ☐ Forever 1

☐ Delay Thread creation until needed

☐ Scheduler

Sebelum Optimasi

1. Lihat Mahasiswa dengan average 20 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: ☐ Errors ☒ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
74	22:18:02.834	Thread Group 1-74	HTTP Request	14	✓	3809	144	14	1
75	22:18:02.931	Thread Group 1-75	HTTP Request	10	✓	3809	144	10	1
76	22:18:03.035	Thread Group 1-76	HTTP Request	12	✓	3809	144	11	1
77	22:18:03.134	Thread Group 1-77	HTTP Request	12	✓	3809	144	12	1
78	22:18:03.234	Thread Group 1-78	HTTP Request	11	✓	3809	144	11	1
79	22:18:03.334	Thread Group 1-79	HTTP Request	10	✓	3809	144	10	0
80	22:18:03.435	Thread Group 1-80	HTTP Request	10	✓	3809	144	10	1
81	22:18:03.534	Thread Group 1-81	HTTP Request	17	✓	3809	144	17	1
82	22:18:03.634	Thread Group 1-82	HTTP Request	13	✓	3809	144	13	1
83	22:18:03.733	Thread Group 1-83	HTTP Request	13	✓	3809	144	13	1
84	22:18:03.833	Thread Group 1-84	HTTP Request	11	✓	3809	144	11	2
85	22:18:03.933	Thread Group 1-85	HTTP Request	24	✓	3809	144	24	2
86	22:18:04.034	Thread Group 1-86	HTTP Request	11	✓	3809	144	10	1
87	22:18:04.133	Thread Group 1-87	HTTP Request	11	✓	3809	144	11	1
88	22:18:04.234	Thread Group 1-88	HTTP Request	23	✓	3809	144	23	1
89	22:18:04.334	Thread Group 1-89	HTTP Request	14	✓	3809	144	14	1
90	22:18:04.433	Thread Group 1-90	HTTP Request	14	✓	3809	144	14	1
91	22:18:04.533	Thread Group 1-91	HTTP Request	13	✓	3809	144	13	1
92	22:18:04.632	Thread Group 1-92	HTTP Request	11	✓	3809	144	11	1
93	22:18:04.732	Thread Group 1-93	HTTP Request	12	✓	3809	144	12	1
94	22:18:04.832	Thread Group 1-94	HTTP Request	26	✓	3809	144	26	2
95	22:18:04.932	Thread Group 1-95	HTTP Request	10	✓	3809	144	10	0
96	22:18:05.031	Thread Group 1-96	HTTP Request	12	✓	3809	144	12	1
97	22:18:05.132	Thread Group 1-97	HTTP Request	11	✓	3809	144	11	1
98	22:18:05.232	Thread Group 1-98	HTTP Request	13	✓	3809	144	12	1
99	22:18:05.332	Thread Group 1-99	HTTP Request	12	✓	3809	144	12	1
100	22:18:05.431	Thread Group 1-100	HTTP Request	22	✓	3809	144	22	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 22 Average 20 Deviation 25

2. Tambah Mahasiswa dengan average 8 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:37:01.504	Thread Group 1-1	HTTP Request	26	✓	4929	203	25	17
2	22:37:01.621	Thread Group 1-2	HTTP Request	4	✓	4929	203	4	1
3	22:37:01.726	Thread Group 1-3	HTTP Request	4	✓	4929	203	4	1
4	22:37:01.827	Thread Group 1-4	HTTP Request	4	✓	4929	203	4	1
5	22:37:01.928	Thread Group 1-5	HTTP Request	4	✓	4929	203	4	1
6	22:37:02.028	Thread Group 1-6	HTTP Request	7	✓	4929	203	7	2
7	22:37:02.128	Thread Group 1-7	HTTP Request	8	✓	4929	203	8	1
8	22:37:02.230	Thread Group 1-8	HTTP Request	3	✓	4929	203	3	0
9	22:37:02.329	Thread Group 1-9	HTTP Request	9	✓	4929	203	9	1
10	22:37:02.430	Thread Group 1-10	HTTP Request	6	✓	4929	203	6	0
11	22:37:02.529	Thread Group 1-11	HTTP Request	5	✓	4929	203	4	0
12	22:37:02.644	Thread Group 1-12	HTTP Request	11	✓	4929	203	10	1
13	22:37:02.744	Thread Group 1-13	HTTP Request	14	✓	4929	203	14	2
14	22:37:02.843	Thread Group 1-14	HTTP Request	6	✓	4929	203	6	1
15	22:37:02.943	Thread Group 1-15	HTTP Request	9	✓	4929	203	9	2
16	22:37:03.044	Thread Group 1-16	HTTP Request	10	✓	4929	203	9	1
17	22:37:03.144	Thread Group 1-17	HTTP Request	6	✓	4929	203	6	1
18	22:37:03.243	Thread Group 1-18	HTTP Request	6	✓	4929	203	5	1
19	22:37:03.343	Thread Group 1-19	HTTP Request	5	✓	4929	203	5	1
20	22:37:03.443	Thread Group 1-20	HTTP Request	10	✓	4929	203	10	2
21	22:37:03.544	Thread Group 1-21	HTTP Request	8	✓	4929	203	8	1
22	22:37:03.642	Thread Group 1-22	HTTP Request	12	✓	4929	203	11	2
23	22:37:03.741	Thread Group 1-23	HTTP Request	5	✓	4929	203	5	0
24	22:37:03.842	Thread Group 1-24	HTTP Request	12	✓	4929	203	11	1
25	22:37:03.942	Thread Group 1-25	HTTP Request	8	✓	4929	203	8	1
26	22:37:04.043	Thread Group 1-26	HTTP Request	10	✓	4929	203	10	1
27	22:37:04.142	Thread Group 1-27	HTTP Request	6	✓	4929	203	6	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 18 Average 0 Deviation 4

3. Mengubah Data Mahasiswa dengan average 15 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:35:31.851	Thread Group 1-1	HTTP Request	42	✓	5174	214	42	2
2	22:35:31.938	Thread Group 1-2	HTTP Request	11	✓	5174	214	11	1
3	22:35:32.053	Thread Group 1-3	HTTP Request	14	✓	5174	214	13	1
4	22:35:32.152	Thread Group 1-4	HTTP Request	11	✓	5174	214	11	1
5	22:35:32.252	Thread Group 1-5	HTTP Request	14	✓	5174	214	14	1
6	22:35:32.353	Thread Group 1-6	HTTP Request	13	✓	5174	214	13	1
7	22:35:32.437	Thread Group 1-7	HTTP Request	13	✓	5174	214	13	1
8	22:35:32.552	Thread Group 1-8	HTTP Request	13	✓	5174	214	13	1
9	22:35:32.653	Thread Group 1-9	HTTP Request	12	✓	5174	214	12	1
10	22:35:32.755	Thread Group 1-10	HTTP Request	12	✓	5174	214	12	1
11	22:35:32.854	Thread Group 1-11	HTTP Request	12	✓	5174	214	12	1
12	22:35:32.955	Thread Group 1-12	HTTP Request	15	✓	5174	214	15	1
13	22:35:33.038	Thread Group 1-13	HTTP Request	13	✓	5174	214	13	1
14	22:35:33.138	Thread Group 1-14	HTTP Request	11	✓	5174	214	11	1
15	22:35:33.256	Thread Group 1-15	HTTP Request	14	✓	5174	214	14	0
16	22:35:33.355	Thread Group 1-16	HTTP Request	13	✓	5174	214	13	1
17	22:35:33.456	Thread Group 1-17	HTTP Request	12	✓	5174	214	12	0
18	22:35:33.556	Thread Group 1-18	HTTP Request	13	✓	5174	214	13	1
19	22:35:33.657	Thread Group 1-19	HTTP Request	15	✓	5174	214	15	2
20	22:35:33.756	Thread Group 1-20	HTTP Request	12	✓	5174	214	12	1
21	22:35:33.857	Thread Group 1-21	HTTP Request	19	✓	5174	214	19	1
22	22:35:33.939	Thread Group 1-22	HTTP Request	12	✓	5174	214	12	0
23	22:35:34.057	Thread Group 1-23	HTTP Request	27	✓	5174	214	27	2
24	22:35:34.157	Thread Group 1-24	HTTP Request	13	✓	5174	214	13	1
25	22:35:34.240	Thread Group 1-25	HTTP Request	13	✓	5174	214	13	1
26	22:35:34.359	Thread Group 1-26	HTTP Request	28	✓	5174	214	28	2
27	22:35:34.459	Thread Group 1-27	HTTP Request	17	✓	5174	214	17	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 12 Average 15 Deviation 7

4. Menampilkan Persentase dengan average 14 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename: Browse...

Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:39:07.787	Thread Group 1-1	HTTP Request	30	✓	2392	155	30	1
2	22:39:07.890	Thread Group 1-2	HTTP Request	9	✓	2392	155	9	0
3	22:39:07.990	Thread Group 1-3	HTTP Request	16	✓	2392	155	16	2
4	22:39:08.090	Thread Group 1-4	HTTP Request	15	✓	2392	155	15	1
5	22:39:08.191	Thread Group 1-5	HTTP Request	15	✓	2392	155	15	1
6	22:39:08.292	Thread Group 1-6	HTTP Request	12	✓	2392	155	12	1
7	22:39:08.392	Thread Group 1-7	HTTP Request	12	✓	2392	155	12	1
8	22:39:08.492	Thread Group 1-8	HTTP Request	13	✓	2392	155	12	1
9	22:39:08.593	Thread Group 1-9	HTTP Request	12	✓	2392	155	12	1
10	22:39:08.692	Thread Group 1-10	HTTP Request	10	✓	2392	155	10	1
11	22:39:08.794	Thread Group 1-11	HTTP Request	18	✓	2392	155	18	1
12	22:39:08.895	Thread Group 1-12	HTTP Request	19	✓	2392	155	19	3
13	22:39:08.995	Thread Group 1-13	HTTP Request	15	✓	2392	155	15	1
14	22:39:09.096	Thread Group 1-14	HTTP Request	11	✓	2392	155	11	0
15	22:39:09.195	Thread Group 1-15	HTTP Request	11	✓	2392	155	11	0
16	22:39:09.296	Thread Group 1-16	HTTP Request	40	✓	2392	155	40	2
17	22:39:09.416	Thread Group 1-17	HTTP Request	17	✓	2392	155	17	2
18	22:39:09.495	Thread Group 1-18	HTTP Request	10	✓	2392	155	10	1
19	22:39:09.595	Thread Group 1-19	HTTP Request	11	✓	2392	155	11	1
20	22:39:09.696	Thread Group 1-20	HTTP Request	11	✓	2392	155	10	1
21	22:39:09.796	Thread Group 1-21	HTTP Request	13	✓	2392	155	13	1
22	22:39:09.896	Thread Group 1-22	HTTP Request	12	✓	2392	155	12	1
23	22:39:09.996	Thread Group 1-23	HTTP Request	21	✓	2392	155	21	1
24	22:39:10.096	Thread Group 1-24	HTTP Request	11	✓	2392	155	11	1
25	22:39:10.196	Thread Group 1-25	HTTP Request	11	✓	2392	155	10	1
26	22:39:10.297	Thread Group 1-26	HTTP Request	14	✓	2392	155	14	1
27	22:39:10.397	Thread Group 1-27	HTTP Request	11	✓	2392	155	11	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 0 Average 14 Deviation 4

5. Mencari Mahasiswa dengan average 28 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename: Browse...

Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
74	22:40:44.112	Thread Group 1-74	HTTP Request	27	✓	33904	167	27	0
75	22:40:44.212	Thread Group 1-75	HTTP Request	26	✓	33904	167	26	1
76	22:40:44.291	Thread Group 1-76	HTTP Request	26	✓	33904	167	25	1
77	22:40:44.412	Thread Group 1-77	HTTP Request	27	✓	33904	167	26	1
78	22:40:44.511	Thread Group 1-78	HTTP Request	28	✓	33904	167	27	1
79	22:40:44.613	Thread Group 1-79	HTTP Request	30	✓	33904	167	29	1
80	22:40:44.693	Thread Group 1-80	HTTP Request	28	✓	33904	167	27	1
81	22:40:44.813	Thread Group 1-81	HTTP Request	30	✓	33904	167	29	1
82	22:40:44.915	Thread Group 1-82	HTTP Request	26	✓	33904	167	25	0
83	22:40:45.014	Thread Group 1-83	HTTP Request	26	✓	33904	167	26	1
84	22:40:45.093	Thread Group 1-84	HTTP Request	29	✓	33904	167	29	1
85	22:40:45.214	Thread Group 1-85	HTTP Request	36	✓	33904	167	35	1
86	22:40:45.314	Thread Group 1-86	HTTP Request	27	✓	33904	167	26	1
87	22:40:45.415	Thread Group 1-87	HTTP Request	48	✓	33904	167	48	1
88	22:40:45.493	Thread Group 1-88	HTTP Request	23	✓	33904	167	22	1
89	22:40:45.615	Thread Group 1-89	HTTP Request	24	✓	33904	167	24	1
90	22:40:45.714	Thread Group 1-90	HTTP Request	25	✓	33904	167	25	1
91	22:40:45.794	Thread Group 1-91	HTTP Request	23	✓	33904	167	23	1
92	22:40:45.913	Thread Group 1-92	HTTP Request	30	✓	33904	167	29	1
93	22:40:46.014	Thread Group 1-93	HTTP Request	45	✓	33904	167	44	0
94	22:40:46.114	Thread Group 1-94	HTTP Request	35	✓	33904	167	34	0
95	22:40:46.194	Thread Group 1-95	HTTP Request	25	✓	33904	167	24	0
96	22:40:46.315	Thread Group 1-96	HTTP Request	29	✓	33904	167	28	1
97	22:40:46.415	Thread Group 1-97	HTTP Request	25	✓	33904	167	25	1
98	22:40:46.515	Thread Group 1-98	HTTP Request	25	✓	33904	167	24	1
99	22:40:46.594	Thread Group 1-99	HTTP Request	23	✓	33904	167	23	1
100	22:40:46.715	Thread Group 1-100	HTTP Request	29	✓	33904	167	29	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 29 Average 28 Deviation 4

Setelah Optimasi

1. Lihat Mahasiswa dengan average 14 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
74	22:44:08.894	Thread Group 1-74	HTTP Request	40	✓	3790	144	40	1
75	22:44:08.956	Thread Group 1-75	HTTP Request	8	✓	3790	144	8	0
76	22:44:09.064	Thread Group 1-76	HTTP Request	10	✓	3790	144	10	0
77	22:44:09.164	Thread Group 1-77	HTTP Request	17	✓	3790	144	17	1
78	22:44:09.265	Thread Group 1-78	HTTP Request	9	✓	3790	144	9	1
79	22:44:09.356	Thread Group 1-79	HTTP Request	11	✓	3790	144	11	0
80	22:44:09.456	Thread Group 1-80	HTTP Request	9	✓	3790	144	9	1
81	22:44:09.557	Thread Group 1-81	HTTP Request	44	✓	3790	144	44	2
82	22:44:09.662	Thread Group 1-82	HTTP Request	10	✓	3790	144	10	1
83	22:44:09.763	Thread Group 1-83	HTTP Request	17	✓	3790	144	17	1
84	22:44:09.862	Thread Group 1-84	HTTP Request	10	✓	3790	144	10	1
85	22:44:09.964	Thread Group 1-85	HTTP Request	17	✓	3790	144	17	1
86	22:44:10.065	Thread Group 1-86	HTTP Request	9	✓	3790	144	9	0
87	22:44:10.163	Thread Group 1-87	HTTP Request	12	✓	3790	144	12	1
88	22:44:10.263	Thread Group 1-88	HTTP Request	13	✓	3790	144	13	1
89	22:44:10.367	Thread Group 1-89	HTTP Request	25	✓	3790	144	25	1
90	22:44:10.457	Thread Group 1-90	HTTP Request	11	✓	3790	144	11	1
91	22:44:10.557	Thread Group 1-91	HTTP Request	11	✓	3790	144	11	1
92	22:44:10.663	Thread Group 1-92	HTTP Request	11	✓	3790	144	11	1
93	22:44:10.764	Thread Group 1-93	HTTP Request	11	✓	3790	144	11	1
94	22:44:10.865	Thread Group 1-94	HTTP Request	13	✓	3790	144	13	0
95	22:44:10.957	Thread Group 1-95	HTTP Request	14	✓	3790	144	14	1
96	22:44:11.063	Thread Group 1-96	HTTP Request	13	✓	3790	144	13	1
97	22:44:11.163	Thread Group 1-97	HTTP Request	15	✓	3790	144	15	1
98	22:44:11.263	Thread Group 1-98	HTTP Request	9	✓	3790	144	9	1
99	22:44:11.357	Thread Group 1-99	HTTP Request	11	✓	3790	144	11	1
100	22:44:11.457	Thread Group 1-100	HTTP Request	9	✓	3790	144	9	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 9 Average 14 Deviation 8

2. Tambah Mahasiswa dengan average 7 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename Browse... Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:45:09.579	Thread Group 1-1	HTTP Request	9	✓	4929	203	9	3
2	22:45:09.686	Thread Group 1-2	HTTP Request	4	✓	4929	203	4	1
3	22:45:09.788	Thread Group 1-3	HTTP Request	7	✓	4929	203	7	1
4	22:45:09.888	Thread Group 1-4	HTTP Request	13	✓	4929	203	13	2
5	22:45:09.987	Thread Group 1-5	HTTP Request	5	✓	4929	203	5	1
6	22:45:10.089	Thread Group 1-6	HTTP Request	12	✓	4929	203	12	2
7	22:45:10.188	Thread Group 1-7	HTTP Request	4	✓	4929	203	4	1
8	22:45:10.289	Thread Group 1-8	HTTP Request	4	✓	4929	203	4	1
9	22:45:10.392	Thread Group 1-9	HTTP Request	9	✓	4929	203	8	0
10	22:45:10.491	Thread Group 1-10	HTTP Request	4	✓	4929	203	4	1
11	22:45:10.590	Thread Group 1-11	HTTP Request	11	✓	4929	203	11	2
12	22:45:10.691	Thread Group 1-12	HTTP Request	12	✓	4929	203	12	1
13	22:45:10.792	Thread Group 1-13	HTTP Request	12	✓	4929	203	12	2
14	22:45:10.892	Thread Group 1-14	HTTP Request	27	✓	4929	203	27	3
15	22:45:10.991	Thread Group 1-15	HTTP Request	4	✓	4929	203	4	1
16	22:45:11.092	Thread Group 1-16	HTTP Request	4	✓	4929	203	4	0
17	22:45:11.191	Thread Group 1-17	HTTP Request	4	✓	4929	203	4	1
18	22:45:11.306	Thread Group 1-18	HTTP Request	9	✓	4929	203	9	1
19	22:45:11.393	Thread Group 1-19	HTTP Request	15	✓	4929	203	15	1
20	22:45:11.493	Thread Group 1-20	HTTP Request	12	✓	4929	203	12	2
21	22:45:11.593	Thread Group 1-21	HTTP Request	6	✓	4929	203	6	1
22	22:45:11.693	Thread Group 1-22	HTTP Request	11	✓	4929	203	11	2
23	22:45:11.794	Thread Group 1-23	HTTP Request	6	✓	4929	203	6	1
24	22:45:11.894	Thread Group 1-24	HTTP Request	14	✓	4929	203	14	2
25	22:45:11.995	Thread Group 1-25	HTTP Request	5	✓	4929	203	5	0
26	22:45:12.094	Thread Group 1-26	HTTP Request	10	✓	4929	203	10	2
27	22:45:12.195	Thread Group 1-27	HTTP Request	10	✓	4929	203	10	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 3 Average 7 Deviation 4

3. Mengubah Data Mahasiswa dengan average 12 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☒ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:46:41.419	Thread Group 1-1	HTTP Request	30	✓	5174	214	30	
2	22:46:41.522	Thread Group 1-2	HTTP Request	10	✓	5174	214	10	
3	22:46:41.627	Thread Group 1-3	HTTP Request	12	✓	5174	214	12	
4	22:46:41.717	Thread Group 1-4	HTTP Request	11	✓	5174	214	11	
5	22:46:41.829	Thread Group 1-5	HTTP Request	12	✓	5174	214	12	
6	22:46:41.929	Thread Group 1-6	HTTP Request	10	✓	5174	214	10	
7	22:46:42.029	Thread Group 1-7	HTTP Request	11	✓	5174	214	11	
8	22:46:42.128	Thread Group 1-8	HTTP Request	10	✓	5174	214	10	
9	22:46:42.230	Thread Group 1-9	HTTP Request	13	✓	5174	214	13	
10	22:46:42.317	Thread Group 1-10	HTTP Request	11	✓	5174	214	11	
11	22:46:42.416	Thread Group 1-11	HTTP Request	17	✓	5174	214	17	
12	22:46:42.517	Thread Group 1-12	HTTP Request	14	✓	5174	214	14	
13	22:46:42.630	Thread Group 1-13	HTTP Request	9	✓	5174	214	9	
14	22:46:42.730	Thread Group 1-14	HTTP Request	12	✓	5174	214	12	
15	22:46:42.818	Thread Group 1-15	HTTP Request	11	✓	5174	214	11	
16	22:46:42.918	Thread Group 1-16	HTTP Request	11	✓	5174	214	10	
17	22:46:43.030	Thread Group 1-17	HTTP Request	13	✓	5174	214	13	
18	22:46:43.129	Thread Group 1-18	HTTP Request	12	✓	5174	214	12	
19	22:46:43.230	Thread Group 1-19	HTTP Request	23	✓	5174	214	23	
20	22:46:43.317	Thread Group 1-20	HTTP Request	11	✓	5174	214	11	
21	22:46:43.418	Thread Group 1-21	HTTP Request	21	✓	5174	214	21	
22	22:46:43.520	Thread Group 1-22	HTTP Request	11	✓	5174	214	11	
23	22:46:43.630	Thread Group 1-23	HTTP Request	10	✓	5174	214	10	
24	22:46:43.731	Thread Group 1-24	HTTP Request	12	✓	5174	214	12	
25	22:46:43.819	Thread Group 1-25	HTTP Request	12	✓	5174	214	12	
26	22:46:43.931	Thread Group 1-26	HTTP Request	14	✓	5174	214	14	
27	22:46:44.031	Thread Group 1-27	HTTP Request	13	✓	5174	214	13	

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 12 Average 12 Deviation 3

4. Menampilkan Persentase dengan average 14 seconds.

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

Filename Log/Display Only: ☐ Errors ☒ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:48:22.292	Thread Group 1-1	HTTP Request	24	✓	2392	155	24	2
2	22:48:22.406	Thread Group 1-2	HTTP Request	10	✓	2392	155	10	0
3	22:48:22.496	Thread Group 1-3	HTTP Request	10	✓	2392	155	10	0
4	22:48:22.597	Thread Group 1-4	HTTP Request	10	✓	2392	155	10	0
5	22:48:22.707	Thread Group 1-5	HTTP Request	12	✓	2392	155	11	1
6	22:48:22.807	Thread Group 1-6	HTTP Request	12	✓	2392	155	12	1
7	22:48:22.910	Thread Group 1-7	HTTP Request	12	✓	2392	155	12	1
8	22:48:23.000	Thread Group 1-8	HTTP Request	12	✓	2392	155	11	1
9	22:48:23.100	Thread Group 1-9	HTTP Request	10	✓	2392	155	10	1
10	22:48:23.201	Thread Group 1-10	HTTP Request	13	✓	2392	155	12	1
11	22:48:23.301	Thread Group 1-11	HTTP Request	11	✓	2392	155	11	1
12	22:48:23.401	Thread Group 1-12	HTTP Request	11	✓	2392	155	11	1
13	22:48:23.501	Thread Group 1-13	HTTP Request	10	✓	2392	155	10	1
14	22:48:23.602	Thread Group 1-14	HTTP Request	11	✓	2392	155	11	2
15	22:48:23.702	Thread Group 1-15	HTTP Request	10	✓	2392	155	10	1
16	22:48:23.827	Thread Group 1-16	HTTP Request	111	✓	2392	155	111	10
17	22:48:23.916	Thread Group 1-17	HTTP Request	31	✓	2392	155	31	12
18	22:48:24.002	Thread Group 1-18	HTTP Request	10	✓	2392	155	10	1
19	22:48:24.094	Thread Group 1-19	HTTP Request	12	✓	2392	155	12	1
20	22:48:24.210	Thread Group 1-20	HTTP Request	10	✓	2392	155	10	0
21	22:48:24.312	Thread Group 1-21	HTTP Request	35	✓	2392	155	35	9
22	22:48:24.406	Thread Group 1-22	HTTP Request	40	✓	2392	155	40	5
23	22:48:24.528	Thread Group 1-23	HTTP Request	17	✓	2392	155	17	1
24	22:48:24.604	Thread Group 1-24	HTTP Request	18	✓	2392	155	18	1
25	22:48:24.704	Thread Group 1-25	HTTP Request	10	✓	2392	155	9	0
26	22:48:24.795	Thread Group 1-26	HTTP Request	10	✓	2392	155	10	0
27	22:48:24.903	Thread Group 1-27	HTTP Request	15	✓	2392	155	15	1

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 13 Average 14 Deviation 11

5. Mencari Mahasiswa dengan average 27 seconds.

00:00:09
0
0/100

View Results in Table

Name:

Comments:

☐ Write results to file / Read from file

Filename:

Log/Display Only:
☐ Errors
☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Sent Bytes	Latency	Connect Time(ms)
1	22:49:41.263	Thread Group 1-1	HTTP Request	50	✓	33904	167	49	2
2	22:49:41.373	Thread Group 1-2	HTTP Request	32	✓	33904	167	32	1
3	22:49:41.463	Thread Group 1-3	HTTP Request	25	✓	33904	167	24	1
4	22:49:41.573	Thread Group 1-4	HTTP Request	23	✓	33904	167	23	1
5	22:49:41.674	Thread Group 1-5	HTTP Request	27	✓	33904	167	26	1
6	22:49:41.774	Thread Group 1-6	HTTP Request	26	✓	33904	167	26	1
7	22:49:41.874	Thread Group 1-7	HTTP Request	37	✓	33904	167	36	1
8	22:49:41.964	Thread Group 1-8	HTTP Request	25	✓	33904	167	24	1
9	22:49:42.075	Thread Group 1-9	HTTP Request	25	✓	33904	167	24	0
10	22:49:42.174	Thread Group 1-10	HTTP Request	27	✓	33904	167	26	1
11	22:49:42.274	Thread Group 1-11	HTTP Request	25	✓	33904	167	24	1
12	22:49:42.373	Thread Group 1-12	HTTP Request	30	✓	33904	167	30	1
13	22:49:42.464	Thread Group 1-13	HTTP Request	25	✓	33904	167	24	1
14	22:49:42.563	Thread Group 1-14	HTTP Request	25	✓	33904	167	24	1
15	22:49:42.673	Thread Group 1-15	HTTP Request	26	✓	33904	167	26	1
16	22:49:42.773	Thread Group 1-16	HTTP Request	24	✓	33904	167	24	1
17	22:49:42.874	Thread Group 1-17	HTTP Request	29	✓	33904	167	29	1
18	22:49:42.965	Thread Group 1-18	HTTP Request	22	✓	33904	167	22	0
19	22:49:43.075	Thread Group 1-19	HTTP Request	53	✓	33904	167	52	2
20	22:49:43.175	Thread Group 1-20	HTTP Request	26	✓	33904	167	25	1
21	22:49:43.274	Thread Group 1-21	HTTP Request	25	✓	33904	167	25	1
22	22:49:43.374	Thread Group 1-22	HTTP Request	34	✓	33904	167	34	1
23	22:49:43.464	Thread Group 1-23	HTTP Request	24	✓	33904	167	23	1
24	22:49:43.574	Thread Group 1-24	HTTP Request	26	✓	33904	167	25	1
25	22:49:43.665	Thread Group 1-25	HTTP Request	25	✓	33904	167	24	1
26	22:49:43.765	Thread Group 1-26	HTTP Request	24	✓	33904	167	24	1
27	22:49:43.876	Thread Group 1-27	HTTP Request	31	✓	33904	167	31	0

☐ Scroll automatically?
☐ Child samples?
No of Samples 100
Latest Sample 25
Average 27
Deviation 5