

TUGAS PENGUJIAN BEHAVIOR DRIVEN DEVELOPMENT (BDD)
PEMBANGUNAN PERANGKAT LUNAK
KELAS I2

“Hebat”



Disusun oleh:

Kelompok ..

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S1 SISTEM INFORMASI
FAKULTAS SAINS DAN TEKNOLOGI
UNIVERSITAS AIRLANGGA

2025

BAB I

ANALISIS DAN PERANCANGAN

1.1 User Story

Feature	User Story
Open Keamanan Sistem Informasi Assignment	In order to review assignment details As a Student I want to open and view the details of a specific KSI assignment
Open Calendar	In order to view academic deadlines and schedules As a Student I must be able to open the Calendar from the user menu
Student Login	In order to access courses and academic information As a Student I must be able to log into the Hebat platform
View Grades	In order to view my academic performance As a Student I must be able to open the Grades overview from the user menu
Student Course Search	As a Student I want to be able to search for courses on the "Course Overview" page In order to quickly find a specific course

1.2 User Story Scenario

Feature	User Story Scenario
Open Keamanan Sistem Informasi Assignment	Background: Given The Student is on the "Hebat" login page When The Student enters a valid username into the "Username" field And The Student enters a valid password into the "Password" field And The Student clicks the "Log in" button

	<p>Then The Student should be redirected to the Hebat system's "Home" page</p> <p>Scenario: Successfully Viewing Keamanan Sistem Informasi Assignment Details</p> <p>Given The Student is on the "Keamanan Sistem Informasi course" page</p> <p>When The Student clicks on a specific "Assignment Title" link</p>
Open Calendar	<p>Background:</p> <p>Given The Student is on the "Hebat" login page</p> <p>When The Student enters a valid username into the "Username" field</p> <p>And The Student enters a valid password into the "Password" field</p> <p>And The Student clicks the "Log in" button</p> <p>Then The Student should be redirected to the Hebat system's "Home" page</p> <p>Scenario: Successful Navigation to Calendar Page from Homepage</p> <p>When The Student clicks their name in the "User Menu"</p> <p>And The Student clicks the "Calendar" option from the dropdown menu</p> <p>Then The Student should be redirected to the "Calendar" page</p> <p>And The Student should see the header containing the text "Calendar"</p>
View Grades	<p>Background:</p> <p>Given The Student is on the "Hebat" login page</p> <p>When The Student enters a valid username into the "Username" field</p> <p>And The Student enters a valid password into the "Password" field</p> <p>And The Student clicks the "Log in" button</p> <p>Then The Student should be redirected to the Hebat system's "Home" page</p> <p>Scenario: Successful Navigation to Grades Page from Homepage</p>

	<p>When The Student clicks their name in the "User Menu" to view grades</p> <p>And The Student clicks the "Grades" option from the dropdown menu</p> <p>Then The Student should be redirected to the "Grades" page</p> <p>And The Student should see the header containing their name "187231022 ABHINAYA ZAIM"</p>
Student Login	<p>Scenario: Successful Login with Valid Credentials</p> <p>Given The Student is on the "Hebat" login page</p> <p>When The Student enters a valid username into the "Username" field</p> <p>And The Student enters a valid password into the "Password" field</p> <p>And The Student clicks the "Log in" button</p> <p>Then The Student should be redirected to the Hebat system's "Home" page</p> <p>And The Student should see their courses information on the page</p>
Student Course Search	<p>Background:</p> <p>Given The Student is on the "Hebat" login page</p> <p>When The Student enters a valid username into the "Username" field</p> <p>And The Student enters a valid password into the "Password" field</p> <p>And The Student clicks the "Log in" button</p> <p>Then The Student should be redirected to the Hebat system's "Home" page</p> <p>Scenario: Successful Search for an Existing Course</p> <p>When The Student enters "Keamanan Sistem Informasi" into the "Search" field</p> <p>Then The Student should see the course "2025Ganjil - SIS309 - Keamanan Sistem Informasi - S1 - Sistem Informasi - 2021 - I2" in the results</p>

1.3 Desain Lingkungan Pengujian

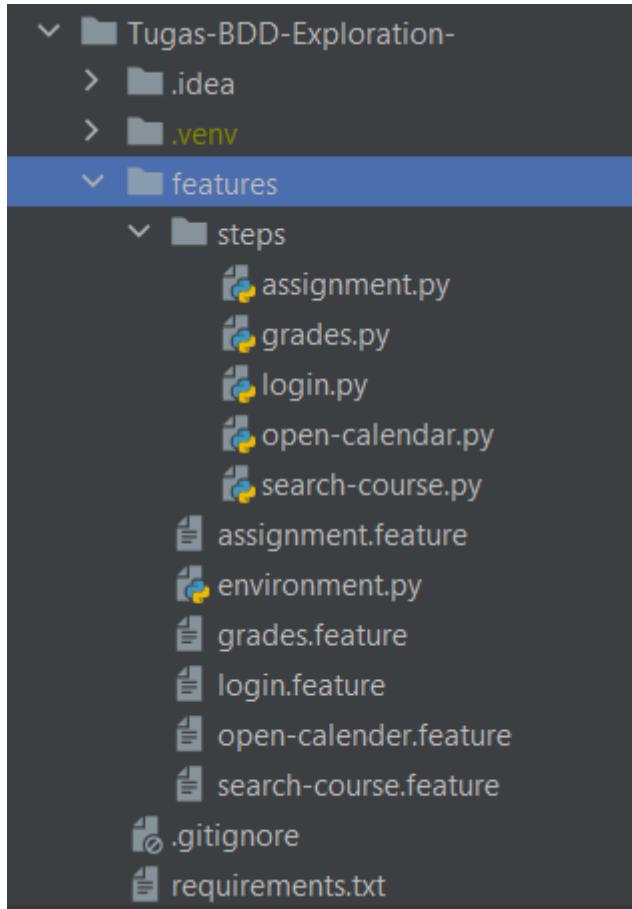
1.4 Arsitektur Pengujian (Simulasi)

BAB II

IMPLEMENTASI PENGUJIAN

2.1 File Project

- Struktur Direktori Project



- <https://github.com/abhinayazaim/Tugas-BDD-Exploration->

2.2 Deskripsi File

Nama File / Folder	Deskripsi
features/	Folder utama Behave. Folder ini berisi semua file fitur (Gherkin) dan definisi langkah (Python) yang diperlukan untuk menjalankan tes.
features/steps/	Folder yang berisi file-file Python (.py) yang mengimplementasikan step definitions (fungsi-fungsi yang dihiasi @given, @when, @then).

features/steps/assignment.py	File Python yang berisi kode untuk menjalankan langkah-langkah yang didefinisikan dalam assignment.feature.
features/steps/grades.py	File Python yang berisi kode untuk menjalankan langkah-langkah yang didefinisikan dalam grades.feature.
features/steps/login.py	File Python yang berisi kode untuk menjalankan langkah-langkah yang didefinisikan dalam login.feature.
features/steps/open-calendar.py	File Python yang berisi kode untuk menjalankan langkah-langkah yang didefinisikan dalam open-calender.feature.
features/steps/search-course.py	File Python yang berisi kode untuk menjalankan langkah-langkah yang didefinisikan dalam search-course.feature.
features/assignment.feature	File Gherkin (teks biasa) yang mendeskripsikan skenario tes untuk fitur assignment (tugas).
features/environment.py	File opsional (tetapi penting) yang berisi hooks (kaitan). Kode di sini dapat berjalan sebelum atau sesudah tes, skenario, atau fitur (misalnya, untuk membuka dan menutup browser).
features/grades.feature	File Gherkin yang mendeskripsikan skenario tes untuk fitur melihat grades (nilai).
features/login.feature	File Gherkin yang mendeskripsikan skenario tes untuk fitur login.
features/open-calender.feature	File Gherkin yang mendeskripsikan skenario tes untuk fitur membuka kalender.
features/search-course.feature	File Gherkin yang mendeskripsikan skenario tes untuk fitur mencari mata kuliah.
requirements.txt	File teks yang mendaftar semua package Python (dan versinya) yang dibutuhkan untuk menjalankan proyek ini.

2.3 Code yang Digunakan

assignment.feature

```
Feature: Open Keamanan Sistem Informasi Assignment
  In order to review assignment details...
  As a Student...
  I want to open and view the details of a specific KSI assignment...

  Background:
    Given The Student is on the "Hebat" login page
    When The Student enters a valid username into the "Username" field
    And The Student enters a valid password into the "Password" field
    And The Student clicks the "Log in" button
    Then The Student should be redirected to the Hebat system's "Home" page

  Scenario: Successfully Viewing Keamanan Sistem Informasi Assignment Details
    Given The Student is on the "Keamanan Sistem Informasi course" page
    When The Student clicks on a specific "Assignment Title" link
```

assignment.py

```
# File: features/steps/assignment.py

from behave import given, when
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC
import time

# === 1. KONSTANTA (SUDAH BENAR) ===
DASHBOARD_URL = "https://hebat.elearning.unair.ac.id/my/courses.php"
KSI_COURSE_NAME = "Keamanan Sistem Informasi"
ASSIGNMENT_NAME = "Aktivitas Lab Minggu ke 9"

# =====

@given('The Student is on the "Keamanan Sistem Informasi course" page')
def step_impl_on_course_page(context):
    if "/my/" not in context.driver.current_url:
        context.driver.get(DASHBOARD_URL)
        WebDriverWait(context.driver, 10).until(EC.url_contains("/my/"))

    try:
        course_link_selector = (By.PARTIAL_LINK_TEXT, KSI_COURSE_NAME)
        course_link = WebDriverWait(context.driver, 15).until(
            EC.element_to_be_clickable(course_link_selector)
        )
        print(f"Menemukan mata kuliah: {course_link.text}")
        course_link.click()

        # Tunggu URL berubah
        WebDriverWait(context.driver,
15).until(EC.url_contains("/course/view.php"))

        # ===INI PERBAIKANNYA===
        # Tunggu juga sampai daftar materi (ul data-for='cmlist') muncul
        # Ini untuk mengatasi race condition
        WebDriverWait(context.driver, 10).until(
            EC.presence_of_element_located((By.CSS_SELECTOR,
"ul[data-for='cmlist']"))
        )

        print(f"✓ Berhasil masuk ke halaman '{KSI_COURSE_NAME}' dan konten dimuat.")
    except Exception as e:
        raise AssertionError(f"Gagal membuka mata kuliah '{KSI_COURSE_NAME}'. Error: {e}")
```

```

@when('The Student clicks on a specific "Assignment Title" link')
def step_impl_click_assignment_link(context):
    try:
        assignment_selector = (
            By.XPATH,
            f"//div[contains(@class, 'activity-item')]"
            f"[./span[contains(normalize-space(.), '{ASSIGNMENT_NAME}')]]"
            f"//a[contains(@href, 'mod/assign/view.php')]"
        )

        assignment_link = WebDriverWait(context.driver, 15).until(
            EC.element_to_be_clickable(assignment_selector)
        )

        print(f"Menemukan tugas: '{ASSIGNMENT_NAME}'. Mengklik...")
        context.driver.execute_script("arguments[0].scrollIntoView({block: 'center'});", assignment_link)
        time.sleep(1) # Diberi jeda singkat agar scroll selesai
        assignment_link.click()

        WebDriverWait(context.driver, 15).until(
            EC.url_contains("/mod/assign/view.php")
        )
        print("✓ Halaman tugas berhasil dibuka.")

        time.sleep(3)
        print("🔴 Skenario assignment selesai.")

    except Exception as e:
        print(f"DEBUG: XPath dicoba: {assignment_selector[1]}")
        raise AssertionError(f"Gagal membuka tugas '{ASSIGNMENT_NAME}'.
Error: {e}")

```

open-calender.feature

```

Feature: Open Calendar
  In order to view academic deadlines and schedules
  As a Student
  I must be able to open the Calendar from the user menu

  Background:
    Given The Student is on the "Hebat" login page
    When The Student enters a valid username into the "Username" field
    And The Student enters a valid password into the "Password" field
    And The Student clicks the "Log in" button
    Then The Student should be redirected to the Hebat system's "Home" page

  Scenario: Successful Navigation to Calendar Page from Homepage
    When The Student clicks their name in the "User Menu"
    And The Student clicks the "Calendar" option from the dropdown menu
    Then The Student should be redirected to the "Calendar" page
    And The Student should see the header containing the text "Calendar"

```

open-calender.py

```

from behave import given, when, then
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC

# --- Selektor Kalender ---
USER_MENU_TOGGLE_ID = "action-menu-toggle-0"
CALENDAR_LINK_XPATH = "//a[@aria-labelledby='actionmenuaction-3']"
PAGE_HEADING_SELECTOR = (By.XPATH,
    "//div[@class='page-header-headings']/h1")
CALENDAR_PAGE_URL_FRAGMENT = "/calendar/view.php"

```

```

@when('The Student clicks their name in the "User Menu"')
def step_impl(context):
    """Mengklik tombol menu pengguna (toggle) untuk membuka dropdown."""
    try:
        user_menu_toggle = WebDriverWait(context.driver, 10).until(
            EC.element_to_be_clickable((By.ID, USER_MENU_TOGGLE_ID)))
    )
    user_menu_toggle.click()
    except Exception as e:
        raise AssertionError(f"Gagal menemukan atau mengklik user menu
toggle (ID: {USER_MENU_TOGGLE_ID}). Error: {e}")

@when('The Student clicks the "Calendar" option from the dropdown menu')
def step_impl(context):
    """Mengklik link 'Calendar' di dalam dropdown yang sudah terbuka."""
    try:
        calendar_link = WebDriverWait(context.driver, 10).until(
            EC.element_to_be_clickable((By.XPATH, CALENDAR_LINK_XPATH)))
    )
    calendar_link.click()
    except Exception as e:
        raise AssertionError(f"Gagal menemukan atau mengklik link 'Calendar'
(XPATH: {CALENDAR_LINK_XPATH}). Error: {e}")

@then('The Student should be redirected to the "Calendar" page')
def step_impl(context):
    """Memverifikasi bahwa URL telah berubah ke halaman Kalender."""
    try:
        WebDriverWait(context.driver, 15).until(
            EC.url_contains(CALENDAR_PAGE_URL_FRAGMENT))
    )
    current_url = context.driver.current_url
    assert CALENDAR_PAGE_URL_FRAGMENT in current_url, \
        f"Tidak dialihkan ke halaman Kalender. URL Saat Ini:
{current_url}"

    except Exception as e:
        raise AssertionError(f"Timeout menunggu pengalihan ke halaman
Kalender. Error: {e}")

@then('The Student should see the header containing the text "Calendar"')
def step_impl(context):
    """Memverifikasi bahwa header H1 di halaman baru berisi teks
'Calendar'."""
    try:
        WebDriverWait(context.driver, 10).until(
            EC.text_to_be_present_in_element(PAGE_HEADING_SELECTOR,
"Calendar"))
    )
    heading_text =
context.driver.find_element(*PAGE_HEADING_SELECTOR).text
    assert "Calendar" in heading_text, f"Header tidak menunjukkan
'Calendar'. Ditemukan: {heading_text}"

    print("Navigasi ke halaman 'Calendar' berhasil diverifikasi.")

    except Exception as e:
        raise AssertionError(f"Gagal menemukan judul halaman 'Calendar'
(Selektor: {PAGE_HEADING_SELECTOR}). Error: {e}")

```

grades.feature

Feature: View Grades

In order to view my academic performance

As a Student

I must be able to open the Grades overview from the user menu

```

Background:
Given The Student is on the "Hebat" login page
When The Student enters a valid username into the "Username" field
And The Student enters a valid password into the "Password" field
And The Student clicks the "Log in" button
Then The Student should be redirected to the Hebat system's "Home" page

Scenario: Successful Navigation to Grades Page from Homepage
When The Student clicks their name in the "User Menu" to view grades
And The Student clicks the "Grades" option from the dropdown menu
Then The Student should be redirected to the "Grades" page
And The Student should see the header containing their name "187231022
ABHINAYA ZAIM"

```

grades.py

```

from behave import given, when, then
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC

# --- Selektor Menu (Tetap) ---
USER_MENU_TOGGLE_ID = "action-menu-toggle-0"

# --- Selektor Grades (Diubah) ---
# Diambil dari HTML: <a ... aria-labelledby="actionmenuaction-2"> ...
<span>Grades</span>
GRADES_LINK_XPATH = "//a[@aria-labelledby='actionmenuaction-2']"

# Diambil dari HTML: <a href="/grade/report/overview/index.php" ...>
GRADES_PAGE_URL_FRAGMENT = "/grade/report/overview/index.php"

# Diambil dari HTML: <div class="page-header-headings"><h1>...</h1></div>
# Selektor ini SAMA dengan halaman Kalender, yang mana itu bagus.
PAGE_HEADING_SELECTOR = (By.XPATH,
    "//div[@class='page-header-headings']/h1")

@when('The Student clicks their name in the "User Menu" to view grades')
def step_impl(context):
    """Mengklik tombol menu pengguna (toggle) untuk membuka dropdown."""
    try:
        user_menu_toggle = WebDriverWait(context.driver, 10).until(
            EC.element_to_be_clickable((By.ID, "action-menu-toggle-0")))
    )
    user_menu_toggle.click()
    except Exception as e:
        raise AssertionError(f"Gagal menemukan atau mengklik user menu
toggle (ID: action-menu-toggle-0). Error: {e}")

@when('The Student clicks the "Grades" option from the dropdown menu')
def step_impl(context):
    """Mengklik link 'Grades' di dalam dropdown yang sudah terbuka."""
    try:
        grades_link = WebDriverWait(context.driver, 10).until(
            EC.element_to_be_clickable((By.XPATH, GRADES_LINK_XPATH)))
    )
    grades_link.click()
    except Exception as e:
        raise AssertionError(f"Gagal menemukan atau mengklik link 'Grades'
(XPATH: {GRADES_LINK_XPATH}). Error: {e}")

@then('The Student should be redirected to the "Grades" page')
def step_impl(context):
    """Memverifikasi bahwa URL telah berubah ke halaman Grades."""

```

```

try:
    WebDriverWait(context.driver, 15).until(
        EC.url_contains(GRADES_PAGE_URL_FRAGMENT)
    )
    current_url = context.driver.current_url
    assert GRADES_PAGE_URL_FRAGMENT in current_url, \
        f"Tidak dialihkan ke halaman Grades. URL Saat Ini: {current_url}"

except Exception as e:
    raise AssertionError(f"Timeout menunggu pengalihan ke halaman Grades. Error: {e}")

@then('The Student should see the header containing their name "{user_name}"')
def step_impl(context, user_name):
    """Memverifikasi bahwa header H1 di halaman baru berisi nama pengguna."""
    try:
        # Menunggu header H1 untuk memuat dan berisi teks nama pengguna
        WebDriverWait(context.driver, 10).until(
            EC.text_to_be_present_in_element(PAGE_HEADING_SELECTOR, user_name)
        )
        heading_text = context.driver.find_element(*PAGE_HEADING_SELECTOR).text
        assert user_name in heading_text, f"Header tidak menunjukkan '{user_name}'. Ditemukan: {heading_text}"

        print(f"Navigasi ke halaman 'Grades' (Overview) untuk {user_name} berhasil diverifikasi.")

    except Exception as e:
        raise AssertionError(
            f"Gagal menemukan judul halaman '{user_name}' (Selektor: {PAGE_HEADING_SELECTOR}). Error: {e}"
        )

```

login.feature

Feature: Student Login

In order to access courses and academic information
As a Student
I must be able to log into the Hebat platform

Scenario: Successful Login with Valid Credentials

Given The Student is on the "Hebat" login page
When The Student enters a valid username into the "Username" field
And The Student enters a valid password into the "Password" field
And The Student clicks the "Log in" button
Then The Student should be redirected to the Hebat system's "Home" page
And The Student should see their courses information on the page

login.py

```

# File: features/steps/login.py
from behave import given, when, then
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC

# Ubah nim dan password sesuai kebutuhan
VALID_USERNAME = "" # GANTI DENGAN NIM
VALID_PASSWORD = "" # GANTI DENGAN PASSWORD

```

```

LOGIN_URL = "https://hebat.elearning.unair.ac.id/login/index.php"

@given('The Student is on the "Hebat" login page')
def step_impl(context):
    """Memastikan browser diarahkan ke halaman login."""
    context.driver.get(LOGIN_URL)
    try:
        # Kita harus MENUNGGU tombol login muncul
        WebDriverWait(context.driver, 10).until(
            EC.presence_of_element_located((By.ID, "loginbtn"))
        )
    except Exception as e:
        raise AssertionError(f"Tidak berada di halaman login Hebat atau tombol 'loginbtn' tidak ditemukan. Error: {e}")

@when('The Student enters a valid username into the "Username" field')
def step_impl(context):
    """Mengisi kolom username."""
    # Menunggu field username muncul
    username_field = WebDriverWait(context.driver, 10).until(
        EC.presence_of_element_located((By.ID, "username"))
    )
    username_field.send_keys(VALID_USERNAME)

@when('The Student enters a valid password into the "Password" field')
def step_impl(context):
    """Mengisi kolom password."""
    password_field = context.driver.find_element(By.ID, "password")
    password_field.send_keys(VALID_PASSWORD)

@when('The Student clicks the "Log in" button')
def step_impl(context):
    """Menekan tombol login."""
    login_button = context.driver.find_element(By.ID, "loginbtn")
    login_button.click()

@then('The Student should be redirected to the Hebat system\'s "Home" page')
def step_impl(context):
    """Memverifikasi bahwa URL telah berubah ke halaman My courses/Dashboard."""
    try:
        WebDriverWait(context.driver, 15).until(
            EC.url_contains("/my/")
        )
        current_url = context.driver.current_url
        assert "login/index.php" not in current_url, f"Gagal dialihkan. Tetap di halaman login: {current_url}"
    except Exception as e:
        raise AssertionError(f"Timeout menunggu pengalihan ke Halaman 'Home' (my courses). Error: {e}")

@then('The Student should see their courses information on the page')
def step_impl(context):
    """Memverifikasi kehadiran elemen khas dari Dashboard."""
    page_heading_selector = (By.XPATH,
    "//div[@class='page-header-headings']/h1")
    try:
        WebDriverWait(context.driver, 10).until(
            EC.presence_of_element_located(page_heading_selector)
        )
        heading_text =
context.driver.find_element(*page_heading_selector).text
        assert "My courses" in heading_text, f"Header tidak menunjukkan 'My courses'. Ditemukan: {heading_text}"
    except Exception as e:

```

```
        raise AssertionError(f"Gagal menemukan judul halaman 'My courses'.  
Error: {e}")
```

search-course.feature

Feature: Student Course Search

As a Student

I want to be able to search for courses on the "Course Overview" page

In order to quickly find a specific course

Background:

Given The Student is on the "Hebat" login page

When The Student enters a valid username into the "Username" field

And The Student enters a valid password into the "Password" field

And The Student clicks the "Log in" button

Then The Student should be redirected to the Hebat system's "Home" page

Scenario: Successful Search for an Existing Course

When The Student enters "Keamanan Sistem Informasi" into the "Search" field

Then The Student should see the course "2025Ganjil - SIS309 - Keamanan Sistem Informasi - S1 - Sistem Informasi - 2021 - I2" in the results

search-course.py

```
from behave import given, when, then
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC

# URL Halaman "My courses" (Course Overview)
COURSES_URL = "https://hebat.elearning.unair.ac.id/my/courses.php"

@when('The Student enters "{search_term}" into the "Search" field')
def step_impl(context, search_term):
    """
    Menemukan search box dan memasukkan teks pencarian.
    """
    # Berdasarkan HTML: <input ... data-region="input" ...
    placeholder="Search">
    search_box_selector = (By.CSS_SELECTOR, "input[data-region='input']")

    try:
        search_box = WebDriverWait(context.driver, 10).until(
            EC.visibility_of_element_located(search_box_selector)
        )
        search_box.clear()
        search_box.send_keys(search_term)

        # Catatan: Platform ini kemungkinan menggunakan AJAX untuk refresh
        # list.
        # Kita tidak perlu wait di sini; step 'Then' akan menangani 'wait'
        # untuk hasilnya.
        print(f"Memasukkan teks '{search_term}' ke 'Search' field.")

    except Exception as e:
        raise AssertionError(f"Gagal menemukan atau mengisi 'Search' field.  
Error: {e}")

@then('The Student should see the course "{course_name}" in the results')
def step_impl(context, course_name):
    """
    Memverifikasi bahwa mata kuliah yang dicari muncul dalam daftar hasil.
    Step ini akan menunggu (WebDriverWait) hingga hasil pencarian AJAX
    muncul.
    """

```

```
xpath_selector =
f"//li[@data-region='course-content']//a[contains(@class, 'coursename') and
contains(normalize-space(), '{course_name}')]"
```

```
try:
    # Menunggu hingga 10 detik sampai hasil filter AJAX muncul
    WebDriverWait(context.driver, 10).until(
        EC.visibility_of_element_located((By.XPATH, xpath_selector))
    )

    # Jika wait berhasil, elemen ditemukan
    print(f"Berhasil menemukan mata kuliah: {course_name}")
    assert True # Menandakan step berhasil

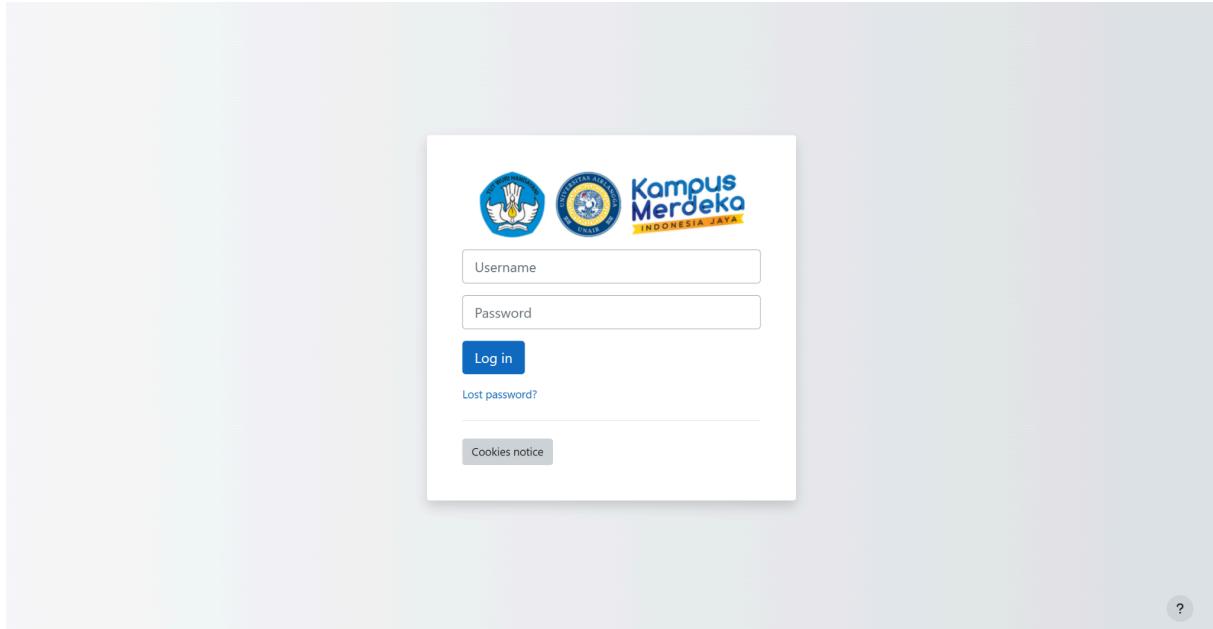
except Exception as e:
    # Jika wait timeout, elemen tidak ditemukan
    raise AssertionError(f"Gagal menemukan mata kuliah '{course_name}' di hasil pencarian. Error: {e}")
```

BAB III

HASIL DAN PEMBAHASAN

3.1 Tampilan Interface Web

3.1.1. Feature Login student



3.1.2. Feature Student Course Search

Kampus Merdeka Survey

187231033 BALYA ANANTA WICAKSANA ANNAHID 1B ✓

My courses

My courses / Site pages / My courses

Welcome back, 187231033! 🎉

Course overview

Starred | Search | Sort by course name | List

Course Title	Description	Actions
★ 2025Ganjil - BAE112 - Bahasa Inggris II - S1 - Fisika - 2021 - BCDLIT6		⋮
★ 2025Ganjil - KNT401 - Kuliah Kerja Nyata-Belajar Bersama Masyarakat - S1 - Sistem Informasi - 2021 - I		⋮
★ 2025Ganjil - MNW409 - Kewirausahaan Dan Bisnis Sistem Informasi - S1 - Sistem Informasi - 2021 - I2		⋮
★ 2025Ganjil - SIA301 - Perencanaan Arsitektur Perusahaan - S1 - Sistem Informasi - 2021 - I1		⋮
★ 2025Ganjil - SIA302 - Perencanaan Arsitektur Perusahaan (praktikum) - S1 - Sistem Informasi - 2021 - I3	DAFTAR ISI Perencanaan Arsitektur Perusahaan (Praktikum) - I3 Kelas: 07.00-08.45, Gedung A	⋮
★ 2025Ganjil - SID303 - Analisis dan Visualisasi Data - S1 - Sistem Informasi - 2021 - I2		⋮
★ 2025Ganjil - SID304 - Analisis dan Visualisasi Data (praktikum) - S1 - Sistem Informasi - 2021 - I1		⋮
★ 2025Ganjil - SII208 - Desain Interaksi - S1 - Sistem Informasi - 2021 - I2	DAFTAR ISI Desain Interaksi - I2 Kelas: 07.00-08.45, J12	⋮
★ 2025Ganjil - SII209 - Desain Interaksi (praktikum) - S1 - Sistem Informasi - 2021 - I1		⋮
★ 2025Ganjil - SII213 - Inovasi Sistem Informasi dan Teknologi - S1 - Sistem Informasi - 2021 - I1		⋮
★ 2025Ganjil - SII318 - Pembangunan Perangkat Lunak - S1 - Sistem Informasi - 2021 - I2		⋮
★ 2025Ganjil - SII319 - Pembangunan Perangkat Lunak (praktikum) - S1 - Sistem Informasi - 2021 - I1		⋮
★ 2025Ganjil - SIS309 - Keamanan Sistem Informasi - S1 - Sistem Informasi - 2021 - I1		⋮

Show 48 ▾

Contact site support

You are logged in as 187231033 BALYA ANANTA WICAKSANA ANNAHID (Log out)

[Home](#)

[Data retention summary](#)

3.1.3. Feature Open Calendar

Kampus Merdeka Survey

187231033 BALYA ANANTA WICAKSANA ANNAHID 1B ✓

Calendar

My courses / October 2025

Month ▾ All courses New event

◀ September October 2025 November ▶

Mon	Tue	Wed	Thu	Fri	Sat	Sun
			1	2	3 UTS is due	4
6	7 Midterm Exam (UTS)... Midterm Exam (UTS)... Midterm Exam (UTS)...	8 Laporan Ujian Tenga... UJIAN TENGAH SEM... UJIAN TENGAH SEM...	9	10 Pengumpulan UTS A... Perbaikan Tugas 3 is... Proposal Bisnis is due	11 UTS is due	12
13	14 Essay I is due Group Submission (t...)	15	16	17	18	19 Progress ke 6: Protot...
20	21 Tugas Individu Glob... Activity Lab is due Outline ~ Smoking I... Essay I is due Assignment 3 is due	22 Tugas 4 - User Scen... Pengumpulan Progr...	23	24	25	26
27	28 Pengumpulan TUGA... Progress ke 7: Protot... Pengumpulan Sprint... Body Paragraph 3 is ... Concluding Paragra... Laporan dan Present...	29 Pengujian BDD is due	30 Aktivitas Lab Mingg... Progress 5b - Week ...	31		

Events key

- Hide site events
- Hide category events
- Hide course events
- Hide group events
- Hide user events
- Hide other events

Import or export calendars

Contact site support

You are logged in as 187231033 BALYA ANANTA WICAKSANA ANNAHID (Log out)

Home Data retention summary

3.1.4. Feature View Grades

 Survey

1B 187231033 BALYA ANANTA WICAKSANA ANNAHID

My courses / Grades

Courses I am taking

Course name	Grade
2025Ganjil - BAE112 - Bahasa Inggris II - S1 - Fisika - 2021 - BC01UT6	-
2025Ganjil - BAE112 - Bahasa Inggris II - S1 - Fisika - 2021 - BC01UT53	-
2023Genap - BAE111 - Bahasa Inggris I - S1 - Fisika - 2018 - BLT3	-
2023Genap - FID113 - Fisika Dasar - S1 - Fisika - 2018 - ACDUS8	-
2023Ganjil - MAA101 - Kalkulus - S1 - Matematika - 2021 - ABCUT53	-
2025Ganjil - SIS309 - Keamanan Sistem Informasi - S1 - Sistem Informasi - 2021 - II	-
2025Ganjil - SIS309 - Desain Interaksi (praktikum) - S1 - Sistem Informasi - 2021 - II	-
2025Ganjil - SIA301 - Perencanaan Arsitektur Perusahaan - S1 - Sistem Informasi - 2021 - II	-
2025Ganjil - SIS319 - Pembangunan Perangkat Lunak (praktikum) - S1 - Sistem Informasi - 2021 - II	-
2025Ganjil - SIS318 - Pembangunan Perangkat Lunak - S1 - Sistem Informasi - 2021 - I2	-
2025Ganjil - SIS308 - Desain Interaksi - S1 - Sistem Informasi - 2021 - I2	-
2025Ganjil - MNW409 - Kewirausahaan Dan Bisnis Sistem Informasi - S1 - Sistem Informasi - 2021 - I2	-
2025Ganjil - SIA302 - Perencanaan Arsitektur Perusahaan (praktikum) - S1 - Sistem Informasi - 2021 - I3	-
2025Ganjil - KNT401 - Kuliah Kerja Nyata-Belajar Bersama Masyarakat - S1 - Sistem Informasi - 2021 - I	-
2025Ganjil - SII213 - Inovasi Sistem Informasi dan Teknologi - S1 - Sistem Informasi - 2021 - II	-
2025Ganjil - SID303 - Analisis dan Visualisasi Data - S1 - Sistem Informasi - 2021 - I2	-
2025Ganjil - SID304 - Analisis dan Visualisasi Data (praktikum) - S1 - Sistem Informasi - 2021 - I1	-
2024Genap - SIS305 - Pemrograman Mobile (praktikum) - S1 - Sistem Informasi - 2021 - I2B	-
2024Genap - SIS305 - Pemrograman Web (praktikum) - S1 - Sistem Informasi - 2021 - I2B	-
2024Genap - SII316 - Analisis dan Perancangan Sistem Informasi (Praktikum) - S1 - Sistem Informasi - 2021 - I2B	-
2024Genap - SII306 - Jaringan Komputer (Praktikum) - S1 - Sistem Informasi - 2021 - I1B	-
2024Genap - SIS202 - Pembelajaran Mesin (praktikum) - S1 - Sistem Informasi - 2021 - I2B	-
2024Genap - SIS204 - Pemrograman Web - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - SIC201 - Pembelajaran Mesin - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - SIS205 - Pemrograman Web (praktikum) - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - SIS305 - Pemrograman Mobile (praktikum) - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - SIS202 - Sistem Enterprise - S1 - Sistem Informasi - 2021 - I1	-
2024Genap - SII202 - Jaringan Komputer - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - SIC202 - Pembelajaran Mesin (praktikum) - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - SIS304 - Pemrograman Mobile - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - SII306 - Jaringan Komputer (Praktikum) - S1 - Sistem Informasi - 2021 - II	-
2024Genap - SII316 - Analisis dan Perancangan Sistem Informasi (Praktikum) - S1 - Sistem Informasi - 2021 - I2	-
2024Genap - MNM003 - Kepimpinan dan Manajemen Organisasi - S1 - Sistem Informasi - 2021 - II [SEMESTER 4]	-
2024Genap - SIE301 - Analisis Dan Perancangan Sistem Informasi - S1 - Sistem Informasi - 2021 - II	-
2024Ganjil - SII201 - Batik Data - S1 - Sistem Informasi - 2021 - I2	-
2024Ganjil - SIR201 - Pemrograman Berorientasi Objek - S1 - Sistem Informasi - 2021 - II	-
2024Ganjil - SII201 - Sistem Operasi - S1 - Sistem Informasi - 2021 - II	-
2024Ganjil - SIA204 - Fungsi dan Proses Bisnis - S1 - Sistem Informasi - 2021 - II	-
2024Ganjil - SU205 - Sistem Operasi (Praktikum) - S1 - Sistem Informasi - 2021 - II	-
2024Ganjil - MAL204 - Matematika Diskrit - S1 - Sistem Informasi - 2021 - I2	-
2024Ganjil - SIR203 - Pemrograman Berorientasi Objek (Praktikum) - S1 - Sistem Informasi - 2021 - I2	-
2024Ganjil - SII204 - Basis Data (Praktikum) - S1 - Sistem Informasi - 2021 - I2	-
2024Ganjil - SIA205 - Fungsi dan Proses Bisnis (Praktikum) - S1 - Sistem Informasi - 2021 - I3	-
2024Ganjil - MAS234 - Statistik Inferensi - S1 - Sistem Informasi - 2021 - I1	-
2023Ganjil - SIIH03 - Pengantar Sistem Informasi - S1 - Sistem Informasi - 2021 - II	-
2023Genap - MAT103 - Matrics dan Transformasi Linier - S1 - Sistem Informasi - 2021 - II	-
2023Genap - MAT118 - Statistika Deskriptif - S1 - Sistem Informasi - 2021 - II	-
2023Genap - MAT101 - Algoritma Dan Pemrograman - S1 - Sistem Informasi - 2021 - I2	-
2023Genap - MAT102 - Algoritma Dan Pemrograman (Praktikum) - S1 - Sistem Informasi - 2021 - I2	-
2023Ganjil - AGI101 - Agama Islam I - S1 - Program Mikwu - 2021 - P0874	-
2023Ganjil - BAI101 - Bahasa Indonesia - S1 - Program Mikwu - 2021 - P0874	-
2023Ganjil - BID101 - Biologi Dasar - S1 - Program Mikwu - 2021 - BIODAS 14	-
2023Ganjil - KID105 - Kimia Dasar - S1 - Program Mikwu - 2021 - KIMDAS 14	-
2023Ganjil - NOP103 - Pencasla - S1 - Program Mikwu - 2021 - P0674	-
2023Ganjil - NOP104 - Kewarganegaraan - S1 - Program Mikwu - 2021 - PDB74	-
2023Ganjil - SIP107 - Data dan Pustaka - S1 - Program Mikwu - 2021 - PDB74	-
2023Genap - MNM106 - Kemampuan Komunikasi dan Pengembangan Diri - S1 - Program Mikwu - 2021 - PDB32	-
2023Genap - MNM106 - Komunikasi dan Pengembangan Diri - S1 - Program Mikwu - 2021 - PDB32	-
2023Genap - MNM107 - Pengantar Kolaborasi Keluarga - S1 - Program Mikwu - 2021 - PDB32	-
2023Genap - PHP103 - Logika dan Pemikiran Kritis - S1 - Program Mikwu - 2021 - P0632	200.00

Contact site support

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Home

Data retention summary

3.1.5. Feature Student Course Search

The screenshot shows a web application interface titled "My courses". At the top, there are two circular icons with the text "Kampus Merdeka" and "Survey". On the right, there is a user profile icon with the number "18" and a bell icon. Below the title, the page displays "Course overview" with a search bar containing "Starred", "keamanan sistem", "Sort by course name", and "List". A single course card is shown, featuring a green geometric background image and the text "★ 2025Ganjil - SIS309 - Keamanan Sistem Informasi - S1 - Sistem Informasi - 2021 - II". At the bottom left, there is a "Show" button followed by a dropdown menu set to "48".

This is a dark-themed footer bar. It contains a "Contact site support" link, a message stating "You are logged in as 187231033 BALYA ANANTA WICAKSANA ANNAHID (Log out)", a "Home" link, and a "Data retention summary" link.

3.2 Pembahasan Hasil Pengujian

```
5 features passed, 0 failed, 0 skipped
5 scenarios passed, 0 failed, 0 skipped
38 steps passed, 0 failed, 0 skipped
Took 1min 8.638s
```

A student enters a valid user

Pengujian Behavior-Driven Development (BDD) dieksekusi menggunakan framework Behave pada direktori proyek D:\Projek PPL Prak\bdd-exploration\Tugas-BDD-Exploration-. Pengujian ini mencakup serangkaian fitur utama yang merepresentasikan alur penggunaan aplikasi dari perspektif end-user (mahasiswa).

Status Fungsionalitas: 100% Lulus (Passed) Hasil utama dari pengujian ini adalah 5 dari 5 features, 5 dari 5 scenarios, dan 38 dari 38 steps berhasil dieksekusi tanpa kegagalan. Ini menunjukkan bahwa seluruh fungsionalitas yang diuji—sesuai dengan yang didefinisikan dalam file .feature—berfungsi sesuai dengan ekspektasi.

Fungsionalitas yang telah divalidasi dan dipastikan berfungsi meliputi:

- Login Mahasiswa (login.feature)
- Pencarian Mata Kuliah (search-course.feature)
- Navigasi ke Kalender (open-calender.feature)
- Navigasi ke Halaman Nilai (grades.feature)
- Membuka Detail Tugas (assignment.feature)