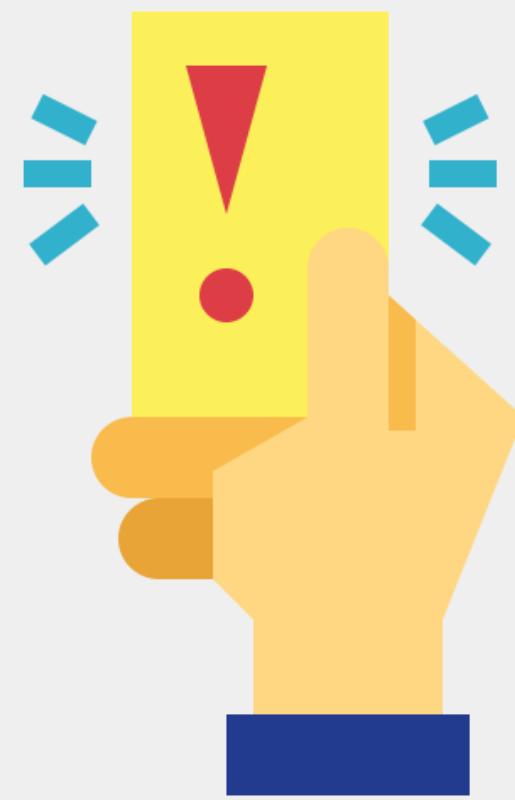
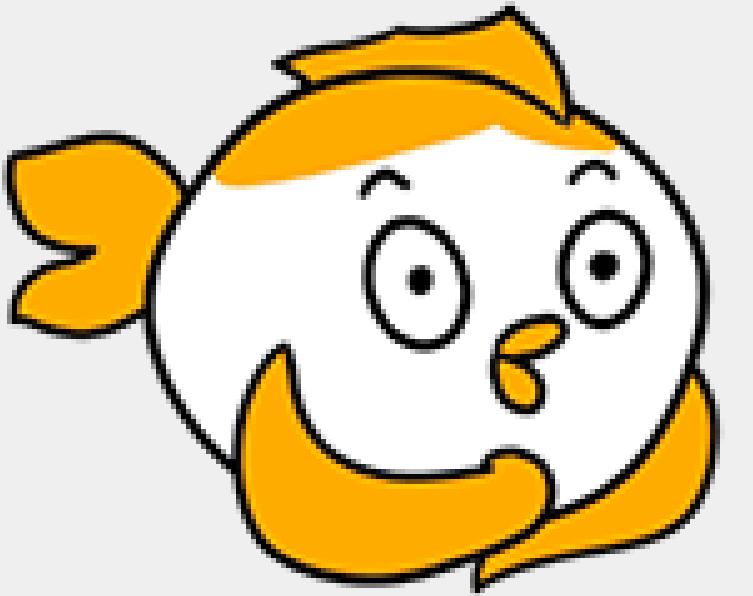


# **AUTOMATED OVERNIGHT LEAVE APPLICATION**

**조다빈**

아 맞다



**Python**

**Chrome**

**Web  
Crawler**

**Automated Overnight  
Leave Application**

**Selenium**

## 정보 입력

```
# Enter the ID and PW
username = driver.find_element(By.NAME, 'id')
username.send_keys(hisnet_id)

username = driver.find_element(By.NAME, 'password')
username.send_keys(hisnet_pw)
```

```
(base) sdbeen@MacBook-Pro-4 Automated_Overnight_Leave_Application % python main_mac.py
Enter a hisnet id: sd0221
Enter a hisnet password:
Enter the location for overnight leave : 오석관
Enter the reason for overnight leave : 과제 제출
```

# Hisnet site 이동

The screenshot shows a web browser window displaying the Hisnet website at [hisnet.handong.edu](https://hisnet.handong.edu). The page features a large banner image of a red brick university building with the text "하나님의 방법으로 하나님의 인재를 양성하는 하나님의 대학" and "Why not change the world?". The Hisnet logo is in the top left, and a navigation bar with links like "식단정보", "교직원 연락처", "편의시설 연락처", "주요공지", "일반공지", and "MORE" is visible. A login form on the right includes fields for "아이디" (sd0221) and "비밀번호", a "로그인" button, and checkboxes for "한글" and "English". Below the login form are links for "JOIN >", "SEARCH ID >", and "LOST PW >". The browser's address bar shows the URL, and the title bar indicates the page is from hisnet.handong.edu.

```
# Open hisnet site
driver.maximize_window()
driver.get('https://hisnet.handong.edu/login/login.php')
```

# RC page 이동

The screenshot shows a web browser displaying the RC page of Handong Global University. The URL in the address bar is `rc.handong.edu/rc/index.do`. The page header includes the university's logo (HGU), navigation links for '한동대학교' and '관련사이트 ▾', and user account links for '로그아웃', '마이페이지', and 'HISNET'. The main content area features a banner with the text '한동대학교 RC·생활관' and a subtext '삶과 배움의 일치를 추구하는 공동체를 형성합니다.' Below the banner is a photograph of a brick building with the university's name in gold letters. A blue sidebar on the right contains a pencil icon and the text '학기중 입주 신청 및 조회' (Semester Housing). The bottom left corner of the screenshot contains a snippet of Python code demonstrating how to open this page using Selenium.

```
# Open RCpage
driver.find_element(By.XPATH, "//div[contains(text(), '/RC')]").click()
driver.implicitly_wait(3)
```

# mypage 이동

The screenshot shows the homepage of the rc.handong.edu mypage system. The URL in the address bar is `rc.handong.edu/rc/mypage/index.do?menu_idx=152`. The page features a sidebar on the left with sections like '내 정보' (My Info), '외박신청' (Overseas Application), and '입주신청 및 조회' (Residence Application and Inquiry). The main content area includes a 'Quick Link' section with icons for application status checks and forms, and a '내정보(My Info)' section. A blue sidebar on the right contains links for 'RC 정보' (RC Information) and '카이퍼RC' (Cyper RC), along with a 'RC 변경신청하기' (Change Application) button. The bottom navigation bar includes a link to '결핵증명서 관리' (Tuberculosis Certificate Management).

```
# Open mypage
driver.get('https://rc.handong.edu/rc/mypage/index.do?menu_idx=152')
driver.implicitly_wait(3)
```

# 내용 입력

```
# Intiate the formated_date, year, month and day
now = datetime.now()
year = now.year
month = now.month
formated_month = f"{now.month:02d}"
day = now.day

# Set end_day_of_month
import calendar
end_day_of_month = calendar.monthrange(year, month)[1]
```

```
while day <= end_day_of_month :
    formated_time = f'{year}-{formated_month}-{day}'

    # Remove "readonly" attribute from the date input
    driver.execute_script("document.getElementById('ovng_begin_dttm').removeAttribute('readonly');")

    # Find the date input element and send today's date
    date_input = driver.find_element(By.ID, 'ovng_begin_dttm')
    date_input.clear() # Clear any existing value
    date_input.send_keys(formated_time)

    # Write reason
    reason = driver.find_element(By.NAME, 'ovng_resn')
    reason.clear()
    text = location + "\n" + reason_text
    reason.send_keys(text)

    day = day + 1
    time.sleep(3)

    # Click apply button
    # driver.find_element(By.XPATH, "//button[@class='btn bg_purple'][text()='신청하기(Apply)']").click()
    driver.find_element(By.XPATH, "//button[@class='btn bg_purple'][contains(text(), '(Apply)')]").click()

    # Wait for the confirmation message box to appear
    # driver.implicitly_wait(2) # Need to adjust the wait time based on page loading speed
    time.sleep(1)

    # Switch to the alert and accept it
    alert = driver.switch_to.alert
    alert.accept()

    # Wait for some time to see the result
    driver.implicitly_wait(5)

driver.quit()
```

# 내용 입력

The screenshot shows a web application interface for applying for a sleepover (외박신청). The URL is [rc.handong.edu/rc/mypage/domExeat/index.do?menu\\_idx=70](http://rc.handong.edu/rc/mypage/domExeat/index.do?menu_idx=70). The main content area is titled "외박신청하기(Apply Sleepover)".

**Date of Apply:** 2023-09-01 (부터(from)) 1 박(day)

**Reason:** 오석관  
과제 제출

**Buttons:** 신청하기(Apply) (Purple button)

**Left Sidebar:**

- 동숙자 신청
- 결핵증명서 관리
- 별점/상점 +
- 각종 서류 발급
- 납부 현황 조회 및 환불 +
- 면담요청
- 기타민원신청
- 점호 및 출입기록 +
- RC 변경 (Request for Change of RC)

```
# Intiate the format
now = datetime.now()
year = now.year
month = now.month
formated_month = f'{month:02d}'
day = now.day

# Set end_day_of_month
import calendar
end_day_of_month = calendar.monthrange(year, month)[1]
```

```
# Wait for some time to see the result
driver.implicitly_wait(5)

driver.quit()
```

감사합니다