

# Design Document

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## Components

### External:

- ❖ Advising System (external, we will use template emails of the same format for testing)
- ❖ Email

### Internal:

- ❖ Procmail Filter
- ❖ Appointment Database
- ❖ Command line interface

## Tasks

### Procmail Filter

- ❖ Make simple test filter
- ❖ Make function for sending email
- ❖ Write a parsing function
- ❖ Write a function for adding data to the database

### Appointment Database

- ❖ Create tables
- ❖ Add test data
- ❖ Write queries

### Command line interface

- ❖ Learn curses
- ❖ Make simple interface
- ❖ Have interface use data from the database
- ❖ Add email sending function
- ❖ Add ability to cancel appointments

## Use Cases

### Filter updates database and attaches meeting request to email

Actor: Student / Automated advising emails

Preconditions: Email is the correct format for an advising meeting request or cancellation

Postconditions: The email has a meeting request or cancellation attached, appointment database is updated.

Flow of events:

1. Student signs up for an appointment using the advising web form.
2. The form sends an automated email to the adviser.
3. The filter intercepts the email before it reaches their inbox, and does the following:
  - a. Adds or removes the appointment information to the appointment database
  - b. Attaches a meeting request or cancellation to the email
  - c. Continues sending the email

### View appointments with client

Actor: Adviser

Preconditions: Adviser has the client

Postconditions: The client displays the advisers current appointments.

Flow of events:

1. The adviser enters their email
2. The client retrieves all the appointments belonging to the email from the appointment database
3. The client lists all these appointments

### Delete appointments with client

Actor: Adviser

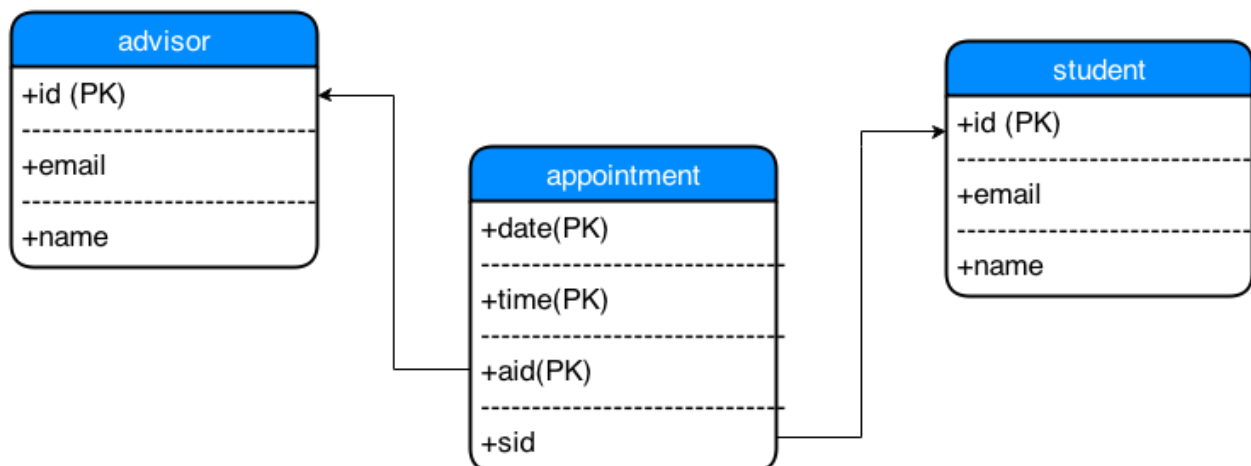
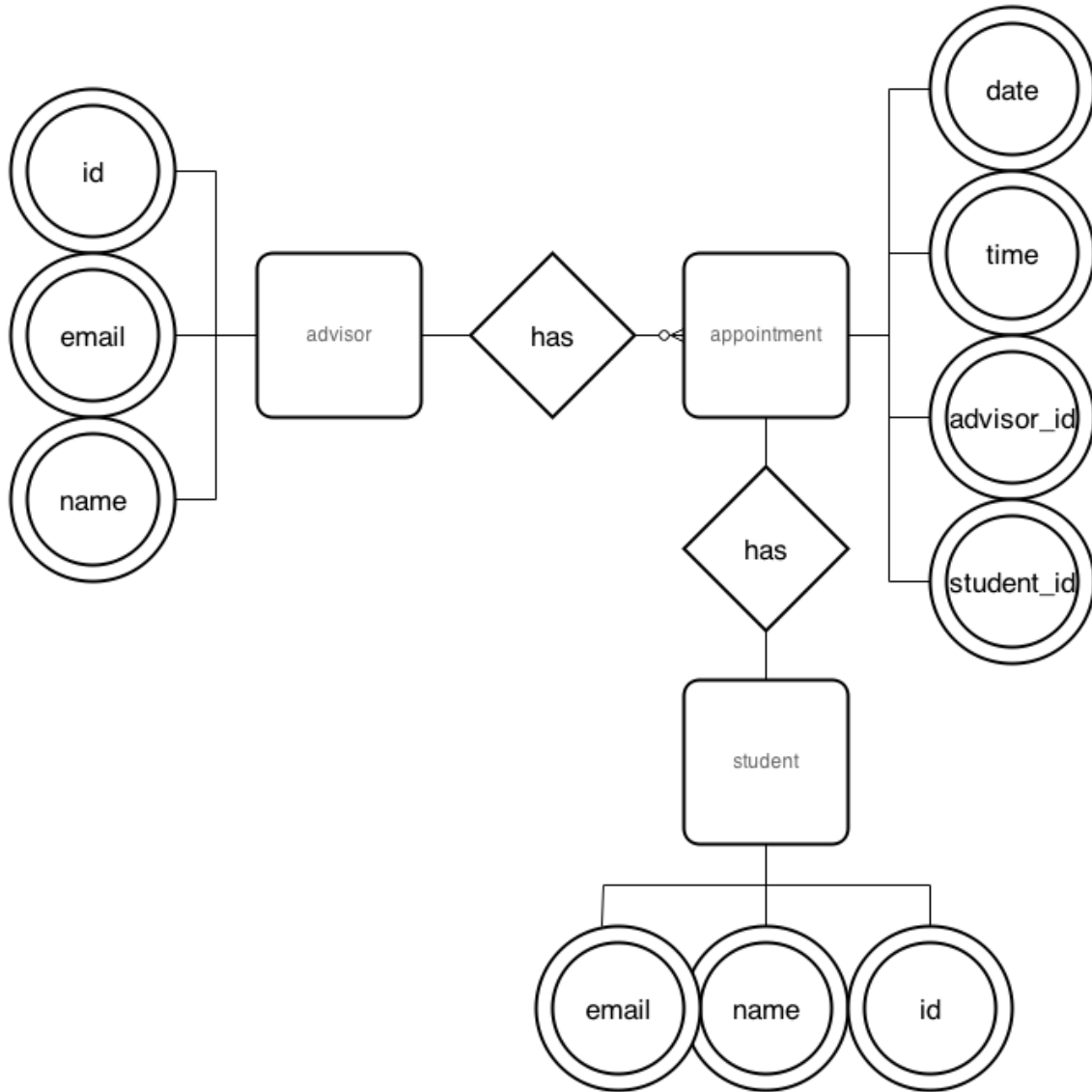
Preconditions: Appointments are displayed accurately, and an appointment is selected by the user.

Postconditions: A cancellation email is sent to the advisor which removes the appointment from the appointment database.

Flow of events:

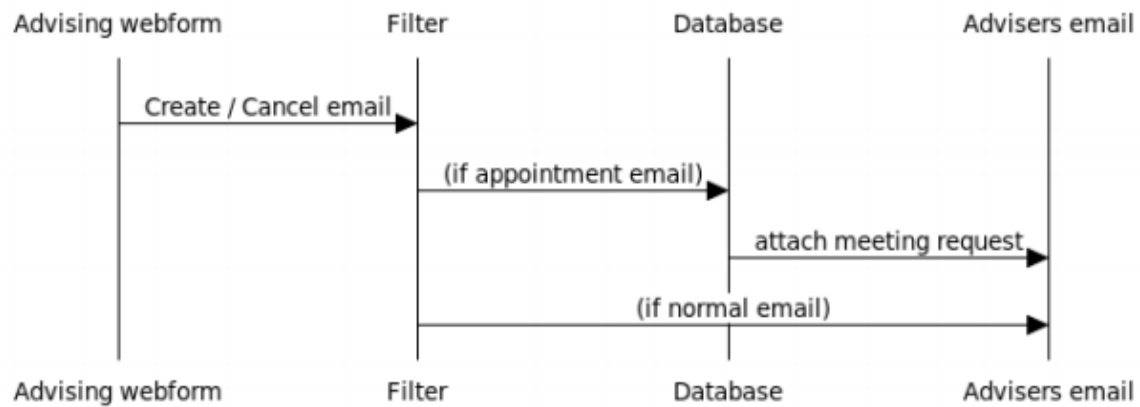
1. The advisor selects to remove an appointment
2. The client sends a cancellation email
  - a. The filter removes the appointment from the database
3. The client lets the user know the appointment is being removed

## Database ER Diagram & Schema

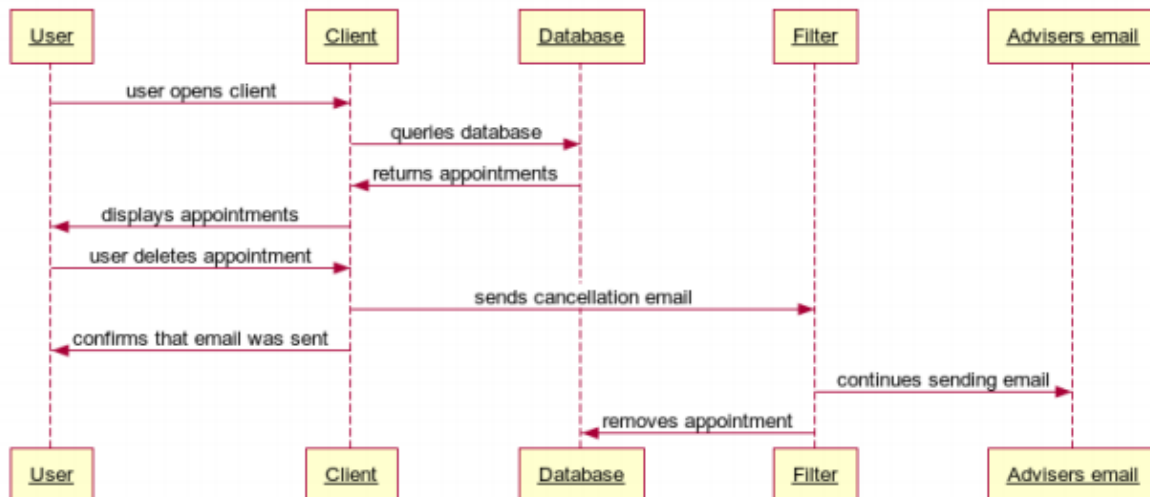


## Message Sequence Diagrams

### Use Case: Create / Delete appointment from recieved email



### Use case: View / Delete appointments



## Project Timeline

### Week 4:

- ❖ Start working on procmail filter
  - Get email filter working (does not need to do anything at the moment, but should be in place)
  - Get email sending function working
    - Should both be able to send email normally, or with a calendar attachment
  - Start on parsing function
- ❖ Test
- ❖ Start looking at using curses

### Week 5:

- ❖ Make simple curses interface
  - Does not use database - placeholder values
- ❖ Write queries for database that the client will use
- ❖ Test

### Week 6: Demo

- ❖ Continue testing
- ❖ More work on curses interface
- ❖ Make demo

### Week 7

- ❖ Finish work on parsing function
- ❖ Finish filter
  - At this point the filter should receive, parse, and send the correct emails.
- ❖ If time, more work on client
- ❖ Test

### Week 8

- ❖ Work on client
  - Connect client to show appointments from database
  - Allow sending of cancellation emails
- ❖ Test

### Week 9

- ❖ More testing

### Week 10

- ❖ More testing
- ❖ Work on final report

### Week 11

- ❖ Work on final report