

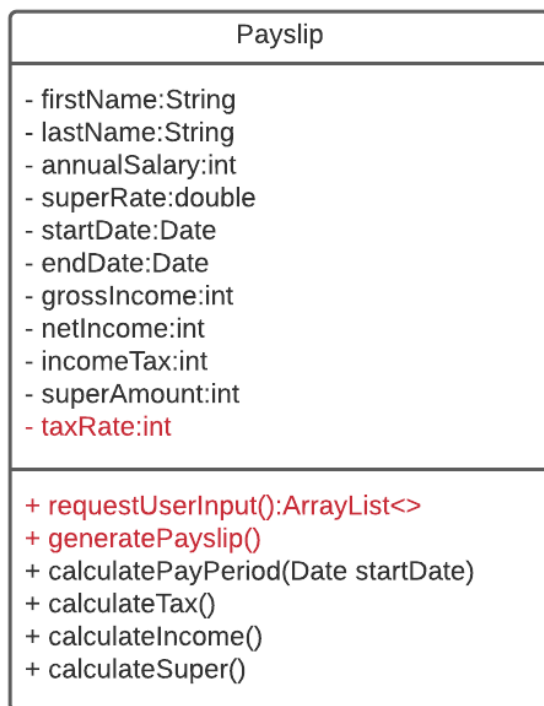
## Design approach

The first step of the design process was to assess the scope of the application in order to decide what the structure would be. Beginning without doing this step could potentially lead to many errors down the road when the scope ends up being too large or small for the design structure that I've proceeded with.

After assessing the scope I decided the functionality could all be achieved in a single class instead of creating multiple classes each responsible for small operations. For example it wouldn't make sense to create a Person class that only contains the first and last name variables.

After this I listed all the possible class level variables that I would require as well as a list of methods that would be needed to perform the various operations. Using this information I created a class diagram that would be the basis of my application design.

## ERD



The attributes/methods in red were later heavily modified or removed from the final program altogether as the design became more refined.

## Assumptions

The date is presented by the user in the [dd/mm/yyyy] format.

The end date of the payment period is exactly 1 month after the start date provided by the user.

The super rate is always given as a decimal by the user.

## Unit tests

### INPUT

First Name	Last Name	Annual Salary	Super rate	Payment period start date
Monica	Tan	60050	0.09	01/03/2021
Brend	Tulu	120000	0.10	01/03/3033

### EXPECTED OUTPUT

Name	Payment period	Gross income	Tax deducted	Net income	Super amount
Monica Tan	01/03/2021 to 01/04/2021	5004	922	4082	450
Brend Tulu	01/03/3033 to 01/04/3033	10000	2669	7331	1000

### OUTPUT

Name	Payment period	Gross income	Tax deducted	Net income	Super amount
Monica Tan	Mon Mar 01 00:00:00 UTC 2021 TO Thu Apr 01 00:00:00 UTC 2021	5004	922	4082	450
Brend Tulu	Fri Mar 01 00:00:00 UTC 3033 TO Mon Apr 01 00:00:00 UTC 3033	10000	2669	7331	1000

## CI/CD

Using Azure I was able to upload the source code for deployment by linking the github repository.

Deployment Center

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Source

GitHub

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GitHub

Signed in as

BrianMwangi74

Organization

BrianMwangi74

Repository

payslipApp

Branch

master

Build

Build provider

GitHub Actions

Runtime stack

Java

Version

11.0

However I was unable to create a new deployment for CI/CD.


Microsoft Azure

Upgrade

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Not found



This resource was not found

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Summary

Session ID  
99537701f5354433a068e8299258f209

Resource ID  
Not available

Extension  
Microsoft\_Azure\_IIDT

Content  
ExecutionAddForm\_Dx

Error code  
404

Details

resource id: (resourceId), API version: 2020-12-01-privatepreview