**Synopsis Proposal**

Website for calculating principal when taking out a mortgage loan.

**Included Features**

- Function for calculating the principal, which is dependent on bank- and bond-fees and user inputs
- The user inputs are: loan amount, own downpayment and current bond price
- The user selects a bank from a drop down menu

**UI**

A single webpage showing

- A dropdown menu where the user can select a bank (TotalKredit or RealkreditDanmark)
- Input fields
    o Loan amount
    o Own downpayment
    o Current bond price
- Calculate button
- The calculated principal is shown on the website

**Backend – Done in Python**

**Focus on**

- Structuring code similar to .NET MVC
- Implement code according to the SOLID principles
- Unit test parts of the principal calculation function via data-driven unit testing
- Test the principal calculation function using a mocking framework
- Blackbox testing / BDD testing like specflow: use Gherkin to test the principal calculation function