Class Name: BankInfo	
Responsibilities	**Collaborators**

Knows
 	
    • ID of the bank
    • Name of the bank
 	
Does
 	
    • Carry bank information within a login response
	• LoginSystem

Class Name: ApproveResponse	
Responsibilities	**Collaborators**

Knows
 	
    • If status change was a success and error if not
 	
Does
 	
    • Carry loan status change success or failure to the frontend
	• LoanSystem

Class Name: LoanResponse	
Responsibilities	**Collaborators**

Knows
 	
    • Detailed student information
    • Detailed loan information
 	
Does
 	
    • Carry student and loan information to frontend in a response to a request for loan details
	• LoanSystem

Class Name: LoanApproveInformation	
Responsibilities	**Collaborators**

Knows
 	
    • ID of user requesting loan status change
    • ID of the loan a status change is being requested on
    • If loan is approved or denied
 	
Does
 	
    • Carry request of user to approve/deny loan from frontend to backend
	• LoanSystem

Class Name: LoanInformation	
Responsibilities	**Collaborators**
Knows • ID of the loan • ID of the bank the user is associated with Does • Carry request of user to view loan details from frontend to backend	• LoanSystem

Class Name: LoanSystem	
Responsibilities	**Collaborators**
Knows • Request of the user to view or change status on loans Does • Handle detail retrieval of loans • Handle status updates of loans	• LoanRepository • UserRepository • StudentRepository • BankRepository • BankOfficerRepository • LoanInformation • LoanResponse • LoanApproveInformation • ApproveResponse • Bank • BankOfficer • Loan • Student • User

Class Name: LoanListInformation	
Responsibilities	**Collaborators**
Knows • ID of student to filter by • ID of bank to filter by • Name of the school to filter by Does • Carry request of user to view a loan list from frontend to backend	• LoanListSystem

Class Name: LoanListResponse	
Responsibilities	**Collaborators**
Knows • List of loans Does • Carry loan information to frontend in a response to a request for a loan list	• LoanListSystem • LoanView

Class Name: LoanView	
Responsibilities	**Collaborators**

Knows
 	
   • Loan information at a glance
   • Student information at a glance
   • Bank information at a glance
 	
Does
 	
   • Carry loan information to frontend in a response to a request for a loan list
	• LoanListSystem

Class Name: LoanListToLoanViewListTransformer	
Responsibilities	**Collaborators**

Knows
 	
   • List of loans and their associated entities
 	
Does
 	
   • Transform a loan into a view of the loan
	• LoanView
	   • Loan
	   • Bank
	   • BankRepository
	   • Student
	   • LoanListResponse

Class Name: LoanListSystem	
Responsibilities	**Collaborators**

Knows
 	
   • Request of the user to view a list of loans
 	
Does
 	
   • List out loans and filter them by requested parameters
	• LoanListInformation
	   • LoanListResponse
	   • LoanListSystem
	   • LoanListToLoanViewListTransformer
	   • BankRepository
	   • LoanRepository
	   • StudentRepository
	   • Loan
	   • Student
	   • LoanView

Class Name: LoanListSystem	
Responsibilities	**Collaborators**

Knows
 	
   • Request of the user to view a list of loans
 	
Does
 	
   • List out loans and filter them by requested parameters
	• LoanListInformation
	   • LoanListResponse
	   • LoanListSystem
	   • LoanListToLoanViewListTransformer
	   • BankRepository
	   • LoanRepository
	   • StudentRepository
	   • Loan
	   • Student
	   • LoanView

Class Name: BankOfficerResponse	
Responsibilities	**Collaborators**
Knows • Bank information • User roles • Whether authentication was successful Does • Carry login status to the frontend after a login request for a bank officer	• LoginSystem • BankInfo

Class Name: LoginResponse	
Responsibilities	**Collaborators**
Knows • User roles • Whether authentication was successful Does • Carry login status to the frontend after a login request for a generic user	• LoginSystem

Class Name: StudentResponse	
Responsibilities	**Collaborators**
Knows • Student Information • User roles • Whether authentication was successful Does • Carry login status to the frontend after a login request for a student	• LoginSystem

Class Name: LoginInformation	
Responsibilities	**Collaborators**
Knows • Principle with which a user attempted to authenticate Does • Carry information from frontend login request to backend	• LoginSystem

Class Name: LoginSysten

Responsibilities	Collaborators
Knows • Request user tries to authenticate with **Does** • Fetch a user from the database and give out their information • Ensure frontend request using this information has the correct credentials	• BankOfficerResponse • LoginResponse • StudentResponse • LoginInformation • UserRepository • StudentRepository • BankOfficerRepository • BankRepository • Bank • BankOfficer • Student • Uesr

Class Name: Bank

Responsibilities	Collaborators
Knows • ID • Bank ID • Bank Name Does: Nothing.	

Class Name: BankOfficer

Responsibilities	Collaborators
Knows • ID • Officer Name • Bank Does: Nothing.	• Bank

Class Name: Loan

Responsibilities	Collaborators
Knows • ID • Bank • Student • Amount • Interest • Terms • Status Does: Nothing.	• Bank • Student

Class Name: Student	
Responsibilities	**Collaborators**
Knows • ID • Name • Address • School • Credit Score • Family Income • Tuition • Student ID Does: Nothing.	• Bank • Student

Class Name: User	
Responsibilities	**Collaborators**
Knows • ID • Username • Password • Role • Person ID Does: Nothing.	

Class Name: BankOfficerRepository	
Responsibilities	**Collaborators**
Knows: Nothing. Does • Fetches bank officers from the database	• BankOfficer

Class Name: BankRepository	
Responsibilities	**Collaborators**
Knows: Nothing. Does • Fetches banks from the database	• Bank

Class Name: LoanRepository	
Responsibilities	**Collaborators**
Knows: Nothing. Does • Fetches loans from the database	• Loan

Class Name: StudentRepository	
Responsibilities	**Collaborators**
Knows: Nothing. Does • Fetches students from the database	• Student

Class Name: UserRepository	
Responsibilities	**Collaborators**
Knows: Nothing. Does • Fetches users from the database	• User

Class Name: ApplicationInformation	
Responsibilities	**Collaborators**
Knows: • Template ID • Student ID • Amount Does • Carries information from frontend request for loan application	• LoanApplicationSystem

Class Name: ApplicationResponse

Responsibilities	Collaborators
Knows: - Result - Error message Does - Respond to frontend with status for a loan application	- LoanApplicationSystem

Class Name: LoanApplicationSystem

Responsibilities	Collaborators
Knows: - Result - Error message Does - Respond to frontend with status for a loan application	- ApplicationInformation - ApplicationResponse - LoanRepository - StudentRepository - Student - Loan - Bank

Class Name: StudentInfo

Responsibilities	Collaborators
Knows - ID of the student - Name of the student - Name of the school the student attends Does - Carry student information within a login response	- LoginSystem