

Software Development in iOS/Swift

07 Data Persistence

David Krög MSc



Assignment 5

Goal of this exercise is to get familiar with the Concept of CoreData and deepen the understanding of SwiftUI and Navigation.

Task 1

- Create a simple Student Data Model which holds
 - firstname
 - lastname
 - age
 - id (some id to identify a student)

Task 2

- First Screen of you application: StudentListView.
- List all students within CoreData on a very simple list view.
- You only need to show the name of the student.

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Task 3

- AddStudentView: Create a new view in which the user can type in the students information in a Form:
 - firstname
 - lastname
 - age
- Wrap the StudentListView in a NavigationStack and add a button in the top right of the toolbar which should present the AddStudentView modally in a sheet if pressed.
- Add a toolbar to the AddStudentView with 2 Buttons:
 - Save: Creates a students object based on the given data and saves it to CoreData. Then dismisses the view.
 - Cancel: Only dismisses the view.
- If implemented correctly you should now be able to add a student and see the added student on the entry screen after dismissing the add view.

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Task 4

- StudentDetailView: Create a new View that will show all the information of the student.
- Enable the student selection in the StudentListView:
 - If a student is tapped in the list navigate to the StudentDetailView using a push.

Optional

- Add the the .searchable modifier to List in the StudentListView to add a searchbar to the list.
- Use the text entered in the searchbar for the CoreData FetchRequest to Filter the student names.