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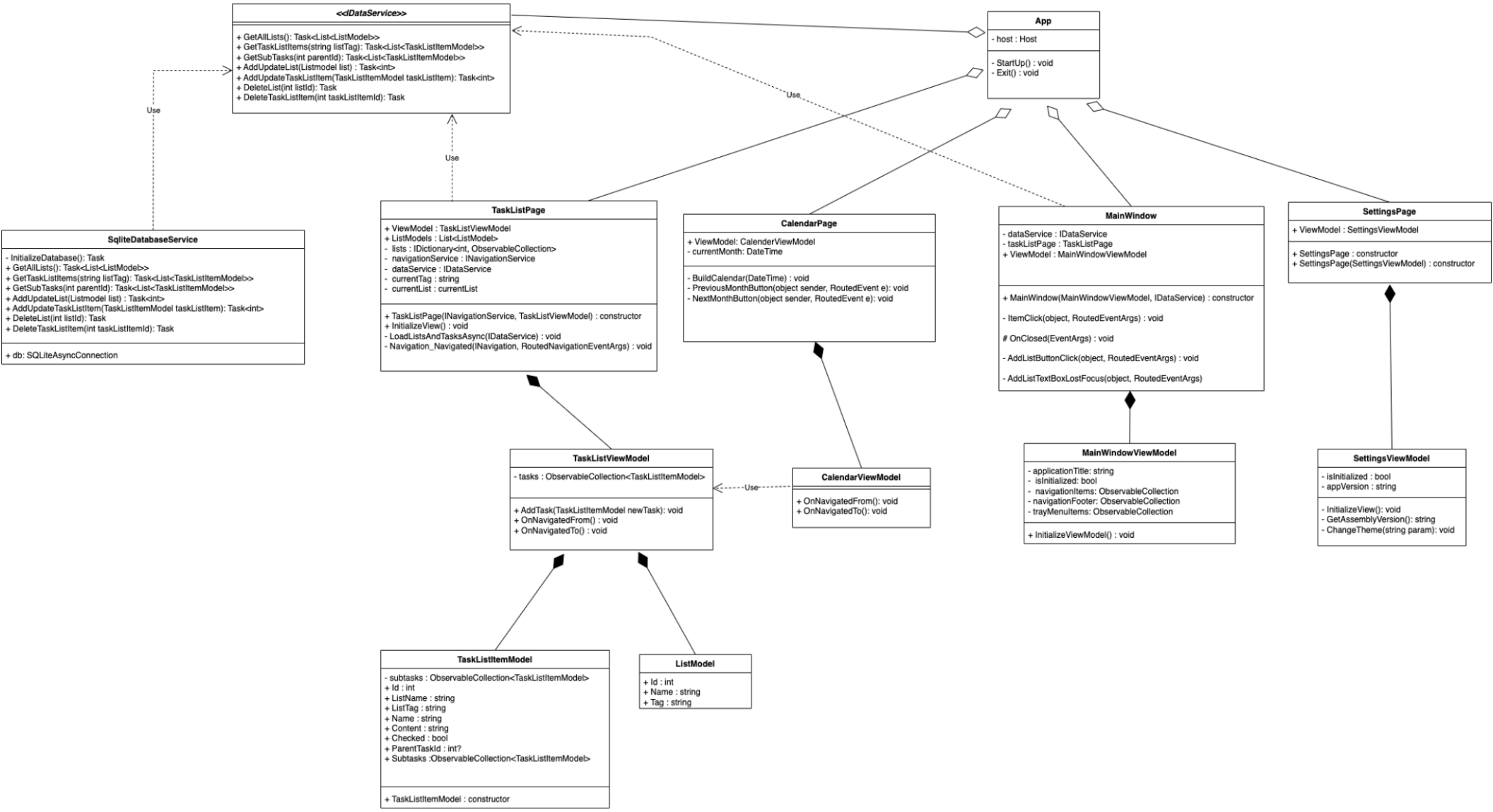
Project Milestone 5 Sunday, April 17th, 2023

Team Name: Five Guys One Chair 🪑

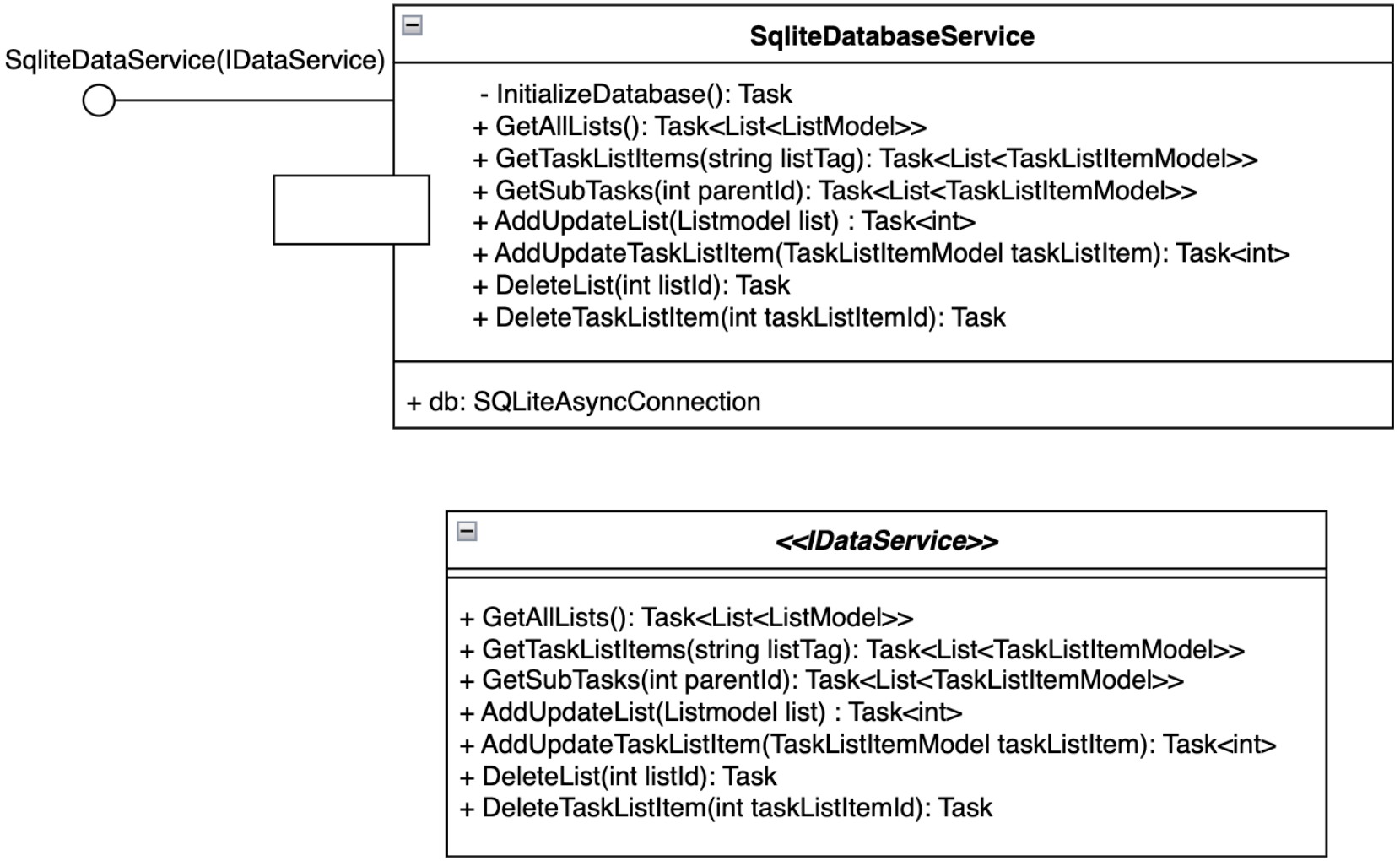
Milestone 5 - Component-level design

1. Elaborated Design Classes

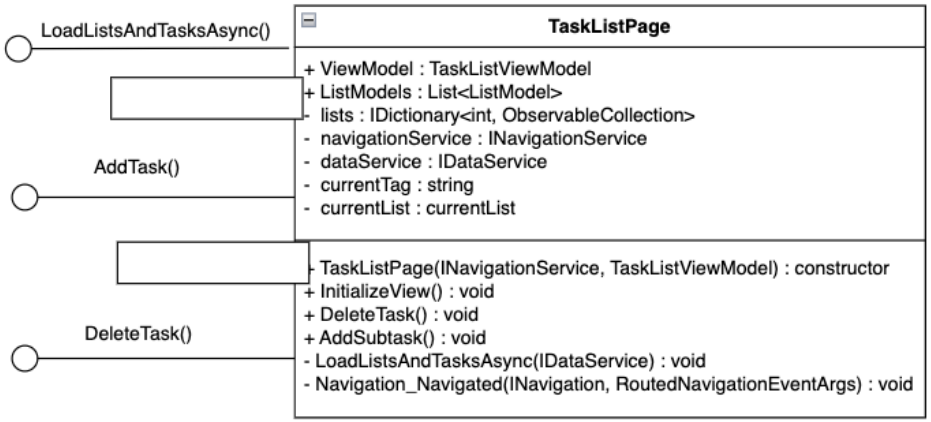


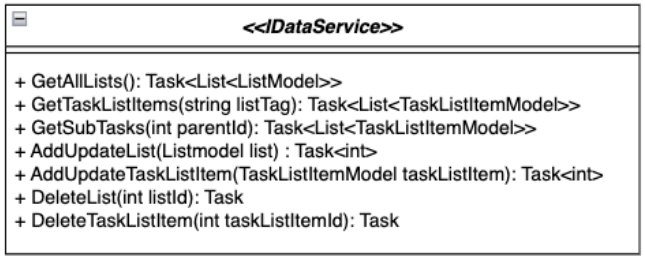
2. Elaborated Component Diagram

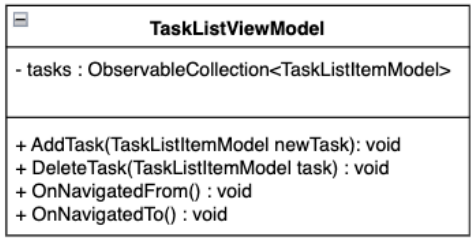
2.1. SqliteDatabaseService

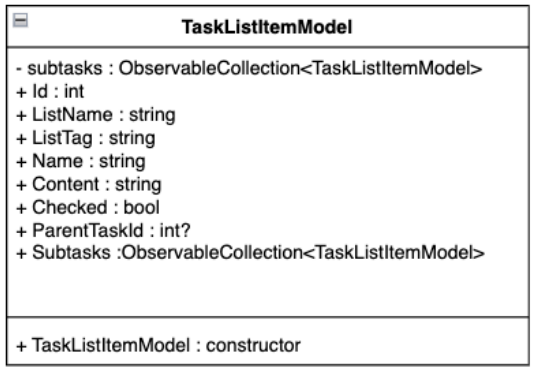


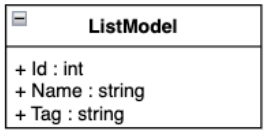
2.2. TaskList


LoadListsAndTasksAsync()
AddTask()
DeleteTask()
TaskListPage
+ ViewModel : TaskListViewModel
+ ListModels : List<ListModel>
- lists : IDictionary<int, ObservableCollection>
- navigationService : INavigationService
- dataService : IDataService
- currentTag : string
- currentList : currentList
+ TaskListPage(INavigationService, TaskListViewModel) : constructor
+ InitializeView() : void
+ DeleteTask() : void
+ AddSubtask() : void
- LoadListsAndTasksAsync(IDataService) : void
- Navigation_Navigated(INavigation, RoutedNavigationEventArgs) : void

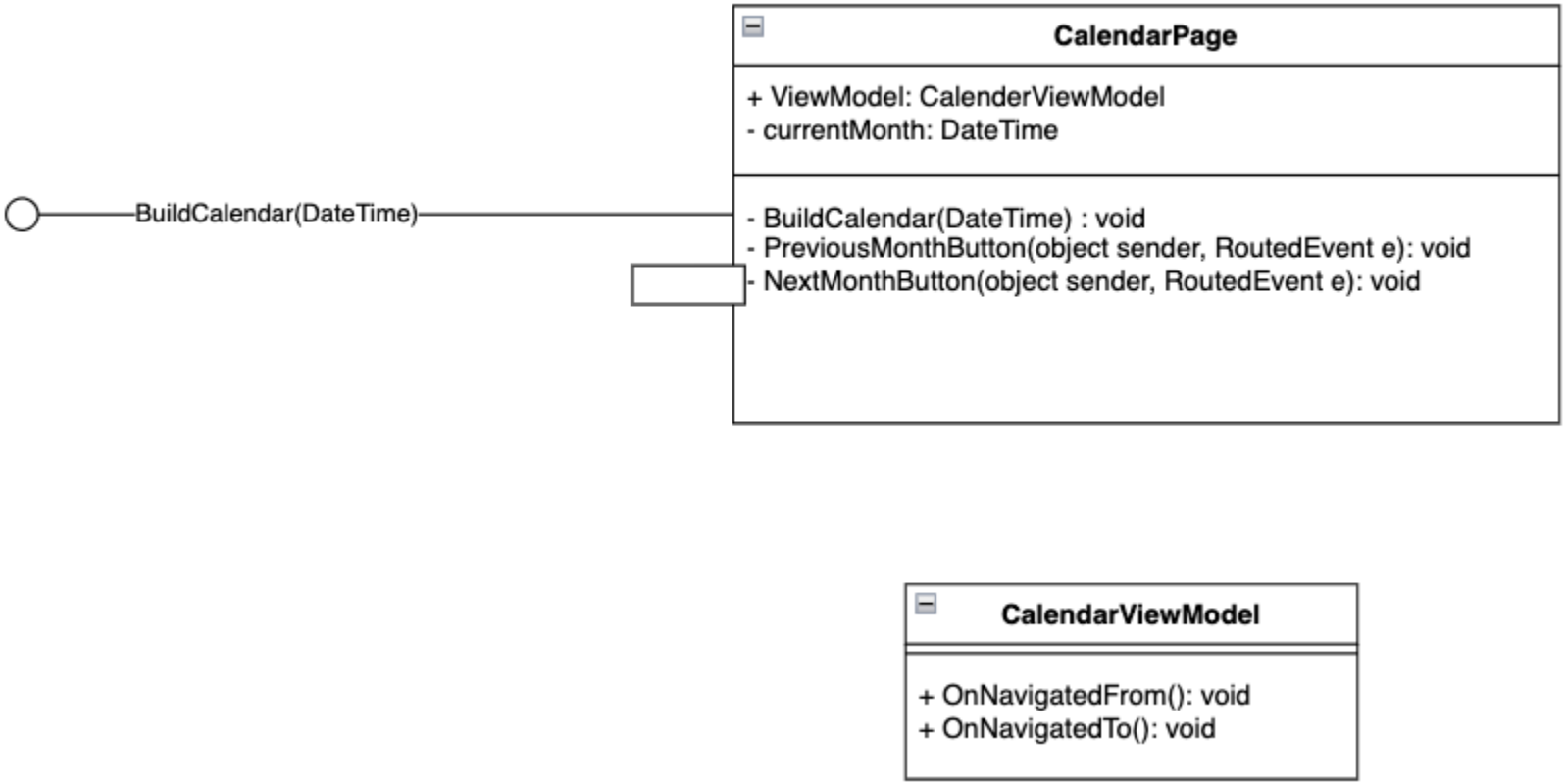

<<IDataService>>
+ GetAllLists(): Task<List<ListModel>>
+ GetTaskListItems(string listTag): Task<List<TaskListItemModel>>
+ GetSubTasks(int parentId): Task<List<TaskListItemModel>>
+ AddUpdateList(Listmodel list) : Task<int>
+ AddUpdateTaskListItem(TaskListItemModel taskListItem): Task<int>
+ DeleteList(int listId): Task
+ DeleteTaskListItem(int taskListItemId): Task


TaskListViewModel
- tasks : ObservableCollection<TaskListItemModel>
+ AddTask(TaskListItemModel newTask): void
+ DeleteTask(TaskListItemModel task) : void
+ OnNavigatedFrom() : void
+ OnNavigatedTo() : void

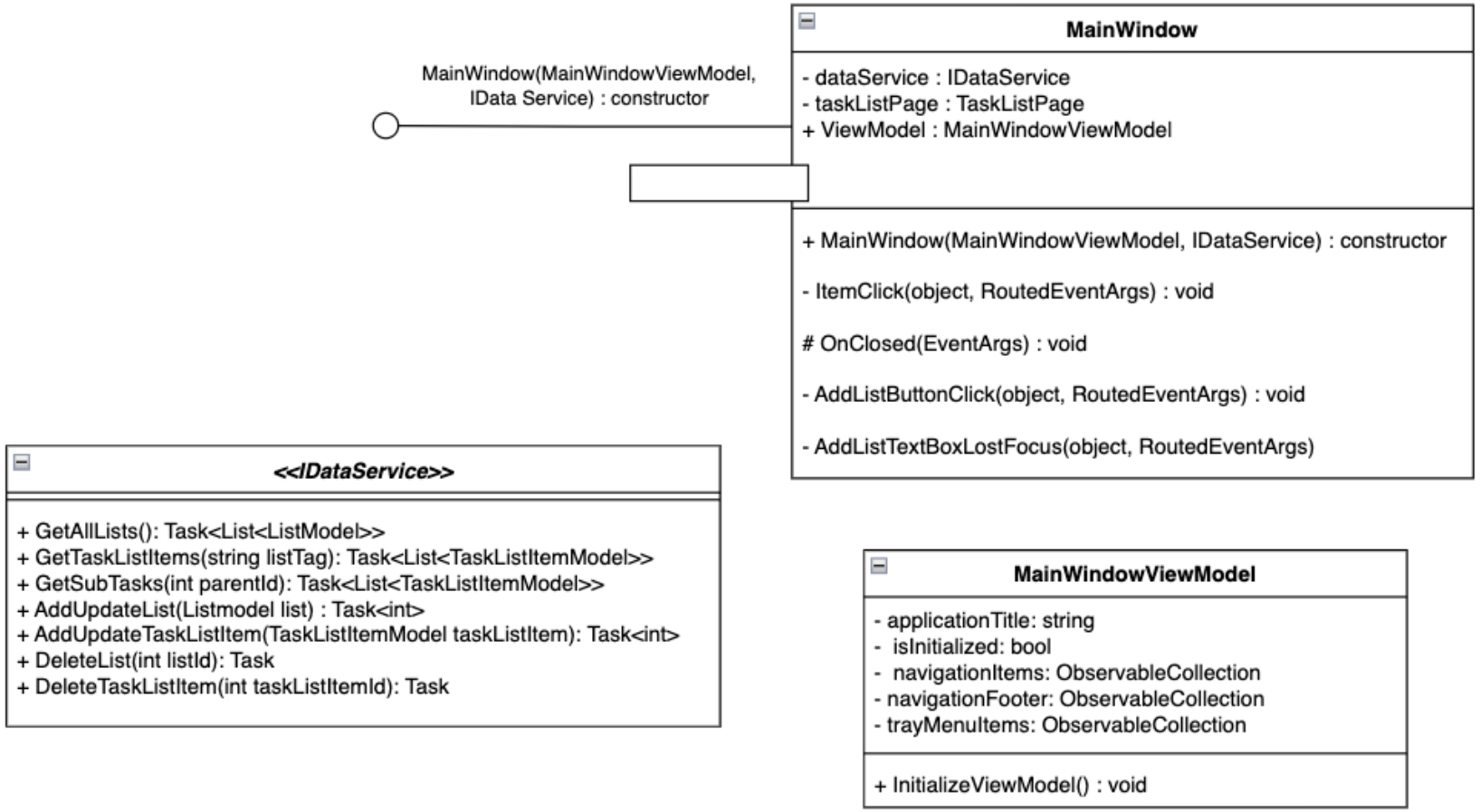

TaskListItemModel
- subtasks : ObservableCollection<TaskListItemModel>
+ Id : int
+ ListName : string
+ ListTag : string
+ Name : string
+ Content : string
+ Checked : bool
+ ParentTaskId : int?
+ Subtasks :ObservableCollection<TaskListItemModel>
+ TaskListItemModel : constructor


ListModel
+ Id : int
+ Name : string
+ Tag : string

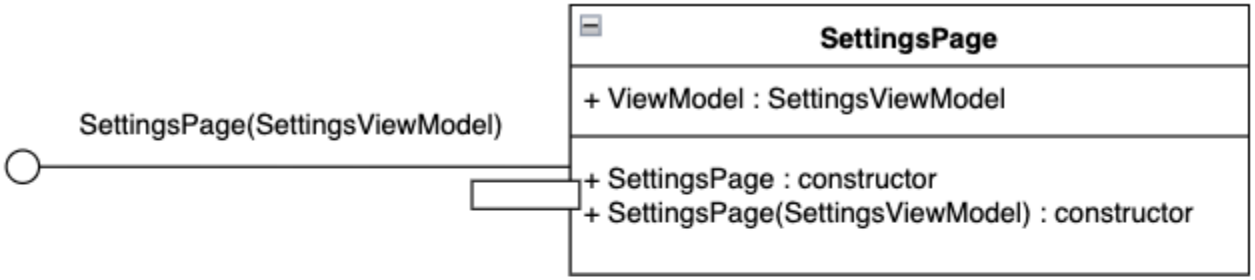
2.3. Calendar

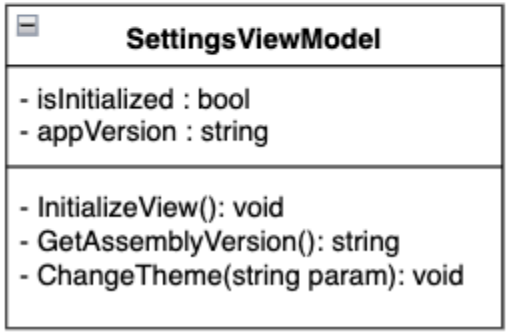

CalendarPage
+ ViewModel: CalenderViewModel
- currentMonth: DateTime
BuildCalendar(DateTime)
- BuildCalendar(DateTime) : void
- PreviousMonthButton(object sender, RoutedEvent e): void
- NextMonthButton(object sender, RoutedEvent e): void
CalendarViewModel
+ OnNavigatedFrom(): void
+ OnNavigatedTo(): void

2.4. Main Window



2.5. Settings


SettingsPage(SettingsViewModel)
SettingsPage
+ ViewModel : SettingsViewModel
+ SettingsPage : constructor
+ SettingsPage(SettingsViewModel) : constructor


SettingsViewModel
- isInitialized : bool
- appVersion : string
- InitializeView(): void
- GetAssemblyVersion(): string
- ChangeTheme(string param): void