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Lab 1

Assignment : Task Squirrels

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Class: Mobile App Development with iOS

Course#: COT 5930 005

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**Abstract**

This lab focuses on the development of Task Squirrel, a mobile application designed to assist parents in assigning and managing tasks for their children. The app emphasizes the integration of multimedia and location-based services to enhance task tracking and completion. Key features implemented include a task list interface, photo attachment via PHPickerViewController, and the extraction of location metadata from photos. Additionally, the app incorporates a map view that displays the geographical location where each task's associated photo was taken, using custom annotations for enhanced visual representation. This project demonstrates the practical application of Swift, MapKit, and photo library APIs in creating an interactive and user-friendly task management tool.

**Lab 1**

The purpose of this lab was to develop a mobile application named **Task Squirrel**, which enables parents to assign tasks to their children while incorporating multimedia elements and location-based services. The app allows users to create, manage, and track tasks, with the added functionality of attaching photos and displaying task locations on a map. The lab exercises provided practical experience in using Swift, UIKit, MapKit, and the PHPickerViewController for photo selection.

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Fig 1: Authorization Request in Info for accessing the photos.

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Fig 2: Configuration of Image Picker

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Fig 3: Flow of the Application in Main Storyboard

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Fig 4 : Github Repo

**GITHUB Repo Link**: [Click here](https://github.com/RohanDS2024/lab-tasksquirrel/tree/main)

**Application Walkthrough Link:** [Click Here!](https://www.loom.com/share/1fe69be838c644529651e51a331c4821?sid=65a54935-f443-4915-bf64-b51565e8921d)

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Fig 5: Application List of Tasks

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Fig 6: Application Tasks Details and description