iOS Final Project – Bazzana Lorenzo (), Zanolin Lorenzo (12245822).

Application name: Text Researcher.

Purpose: The primary objective of this application is to provide users with the capability to search for specific text within a collection of images. Users can select the text they wish to search for and then choose a group of images from which they want to find the text; this functionality enables users to efficiently locate and extract relevant information from a variety of visual content, enhancing their productivity and facilitating tasks such as information retrieval, data analysis, and document organization.

Components: Prima di tutto è stata fatta un’analisi per capire come modellare le informazioni e i dati all’interno dell’applicazione; si è giunti alla creazione dei seguenti modelli:

* **IdentifiableText**: Class used to model the texts that the user will search within the images they have selected. This class contains a single attribute *content* of type String, which also serves as a unique identifier for the object to prevent situations where the user enters the same word twice in the list that saves the words to be searched.
* **IdentifiableImage**: Class used to model the images that the user will utilize in searching for texts; it contains two attributes: *id*, which is of type UUID and serves to uniquely identify each instance of the class, and the *data* attribute of type NSData, which is used to contain the raw information of the image. La classe è stata estesa con la funzione thumbnailImage …
* **TextRecognizer**: