# PAT: Major Programming Project

For your Grade 12 PAT, you will design and develop a custom **information management system** based on a topic of your choice. An **entity** is a **thing** or **object** in your system about which you’ll store and manage information. Your project must involve **4 to 5 related entities** (classes/tables) with appropriate fields, similar to the example below:

**Example: School Administration System**  
**Student** (ID, Firstname, Surname, DateOfBirth, Grade)  
**Subject** (ID, Name)  
**Teacher** (ID, Firstname, Surname)  
**Class** (ID, Name, Year, Grade, Teacher\_ID, Subject\_ID)  
**Assessment** (ID, Name, Class\_ID, Weighting)  
**Marks** (ID, Class\_ID, Student\_ID, Mark)

Your first task is to **choose a suitable topic** and list your **entities with their fields**, following the format shown above.

## ✅ Requirements

* You must create **4 or 5 related entities**.
* Each entity must have:
  + A **name**
  + A list of **fields** (with appropriate data types in mind)
* Your topic should have a **reasonable level of complexity** — enough to allow relationships, CRUD operations, and meaningful functionality.
* However, **do not choose something overly complex**. Your Grade 12 year is already full, so the system should be **manageable within time constraints**.
* **No two students may choose the same topic.** Once you choose a topic, it is reserved for you.

## ✅ What to Submit Now

1. **Your chosen topic** (e.g., Gym Management System, Bookstore System, Veterinary Clinic System)
2. **A list of your 4–5 entities**, written in the format:

**EntityName** (Field1, Field2, Field3, ...)

*The field that uniquely identifies an identity must be underlined.*

## Problem Summary (your topic)

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## Your Entites

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