

## **Ice Task 5**

### **System Development Methodologies**

#### **What is a System Development Methodology?**

A system development methodology is a set of principles to be followed during the software development process (Satzinger, et al., 2015)

There are three main types of system development methodology:

- Agile
- Waterfall
- RAD

#### **What is agile?**

The agile development approach adopts the iterative approach and involves the continuous collaboration (Wrike, n.d.) between customers and the team of developers as an important component of the methodology (Satzinger, Jackson and Burd, 2015).

The goal of the agile is to allow development teams to be flexible, to quickly adapt to changes, deliver their products faster and heavily focuses on customer feedback in development (Wrike, n.d.).

However, according to Satzinger et al. (2015), the agile methodology is not a complete approach, but rather a set of guidelines, the types of methodologies that are complete and include agile are:

- Scrum
- Extreme Programming (XP)
- Unified Process (UP)

#### **What is Waterfall?**

This methodology is named after its approach to SDLC, which it does in a linear manner, much like a waterfall, one step flows into the next, and once a step is complete it cannot be revised (Lutkevich & Lewis, 2022).