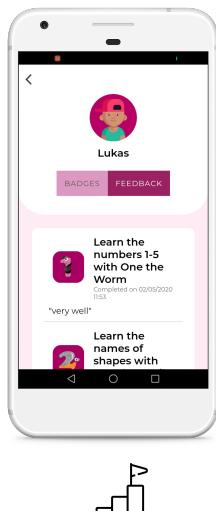


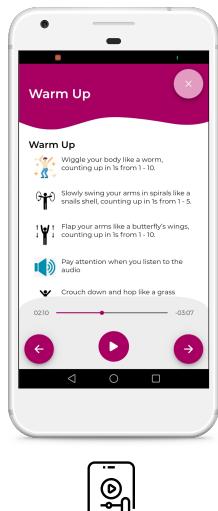
## Abstract

The Early Years app is a project in collaboration with **Numberfit**, an award-winning Social Enterprise. The project focuses on **Numbertots**, a product **designed for nursery and home use**, aimed at kids between 3 and 5 years old. The company currently uses a website to give clients access to the **instructions and audio materials** required to deliver a lesson. However, this was **not a flexible solution** and requires a **stable internet connection**. Our project aimed to help Numberfit by developing a **cross platform mobile application** with **multimedia support and offline functionality**. The application is complemented with an **online Numberfit facilitator portal**, which allows non-programmers to **tailor the app content** without writing a single line of code

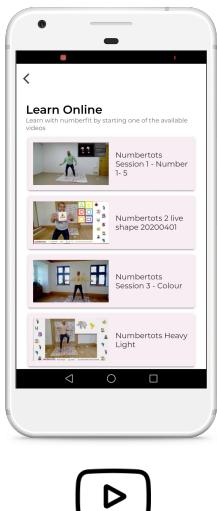
## Key Features



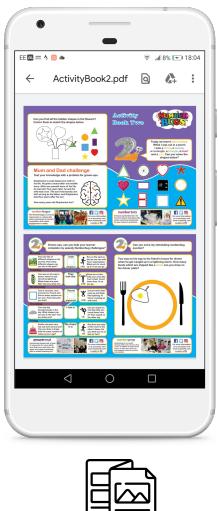
Track student's attendance



Follow a lesson with audio offline



Directly access YouTube playlists



Complete worksheets offline

## Key Requirements



Work in **offline** mode



Display **video** and **audio** resources



Distribute activity **worksheets**



Tailor to parents and teachers



Track student's **attendance**



Create an **admin portal**

## Solution



Using the **ionic framework** we developed a **cross platform** application which includes video and audio resources in offline mode



With **HTML**, **CSS**, **Bootstrap** and **JavaScript**, we developed a content management website allowing full control over the lessons and games



Based on the **MEAN stack** deployed on **AWS EC2**, we developed a **RESTful API** providing a modular data structure

## Technological Architecture

