**SSN COLLEGE OF ENGINEERING**

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**Department of Computer Science and Engineering**

**UCS1412 Database Lab**

**MINI-PROJECT**

# Online Retail Store for Audio Devices

## Project by:

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## Project title:

Building an online retail store for audio devices by designing a web application and a supporting database.

## Problem Statement:

The aim of this project is to allow users to shop for wearable audio devices online according to their requirements.

## Definition of the problem and Project Summary:

Audio devices are used by people from all walks of life. Most users order audio devices from online retailers like Croma, Amazon and Flipkart. This is largely due to the appealing offers and discounts as well as the ease of no contact buying. These stores also enable shoppers to browse through the wide range of products available and narrow their choice down according to their requirements. Our project aims to cover all possible specifications by constructing a well-designed database to supplement our web application.

The following are the various specifications by which users can filter their choice:

* Earphones, headphones
* Wireless, neckbands, wired
* In ear, on, over
* With mic, without
* Noise cancellation
* Lifestyle
* Brand
* Price range
* Colour
* Adjustable: headphones - radius, earphones - bud size or shape

For the continued enhancement of our services, we aim to collect feedback from our users and recommend the best products to them.

## Tentative Schema Model

* User: username (pk), password (not null) (check), details
* Transaction history: (username (fk), receipt no (fk)) composite key
* Products: prod\_id (pk), brand, ear/head, wire type, in/on/over ear, lifestyle, price
* Receipt: receipt no (pk), date, user id (fk), feedback
* Item list: (receipt no (fk), ordinal) composite key, item (fk)

## References

* <https://www.croma.com/audio-video/c/292>
* <https://www.headphonezone.in/>
* Ramez Elmasri, Shamkant B Navathe, “Fundamentals of Database Systems”, 7th Edition, Pearson, 2016.