

## **Introduction:**

Dear sir, we want to develop a E-learning website. From where we hope all the students of NSTU can improve their skills. We hope you will help us as a guide in this journey.

## **Acknowledgement :**

We express our sincere thanks to ourproject guide Ratnadip Kur, Assistant Professor, Department of Computer Science & Telecommunication Engineering, NSTU for guiding us right for the inception and giving the optunity.

## **Certificate:**

This project Proposal is submitted to dept. of Computer Science & Telecommunication Engineering of Noakhali Science & Technology University .

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**(Signature of project supervisor)**

Ratnadip Kuri

**Assistant Professor**

**CSTE, NSTU**

## **Mission and vision:**

Knowledge-Kernel is an e-learning website through which the students of NSTU will get the opportunity to acquire their skills in various subjects. Our goal is that NSTU students come to an e-learning community to learn and teach others. In this regard, we hope that our respected teachers will help us by providing various experiences and resources gained from their successful teaching career.

## **How we work:**

As a team we are responsible to develop frontend and backend part of the Project. Using the modern technology and framework we will develop a user friendly and responsive website.

## **Requirement Specification:**

### **1. Software Requirements:**

Software Requirements deal with defining database resource requirements and pre-requisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or pre-requisites are generally not included in the database of the project and need to be installed separately before the work starts.

## **Software requirements for the present project:**

OPERATING SYSTEM : Windows 10/11,Ubuntu

DATABASE : sqlite3

FRONT END : HTML, CSS, Bootstrap, JavaScript.

SERVER SIDE SCRIPT : Python/Django.

## **2. Hardware requirements:**

The most common set of requirements defined by any operating system or web application is the physical computer resources, also known as hardware. A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in the case of operating systems. An HCL lists tested, compatibility and sometimes incompatible hardware devices for a particular operating system or application. The following sub-sections discuss the various aspects of hardware requirements.

## **Hardware requirements for the present project:**

PROCESSOR : Intel dual Core,i3

RAM : 4 GB

HARD DISK : Up to 256 GB

## Design Workflow:

Here are the redesign stages we'll go through in a bit more detail.

### Web Development

When the web design is ready, we continue with the coding of the new pages.

- Front-end development
- Backend integration
- Website migration

### Quality Assurance

During this phase, we'll have our QA team play around with the new website and test all the newly developed forms, functionalities, and menus. This phase does not include additions to the project scope, but only finding and solving existing code bugs.

### Launch Phase

After the testing phase is completed and all code inconsistencies are fixed, it's time for the launch of the new website.

This is the moment to think about your marketing plan for the website launch.

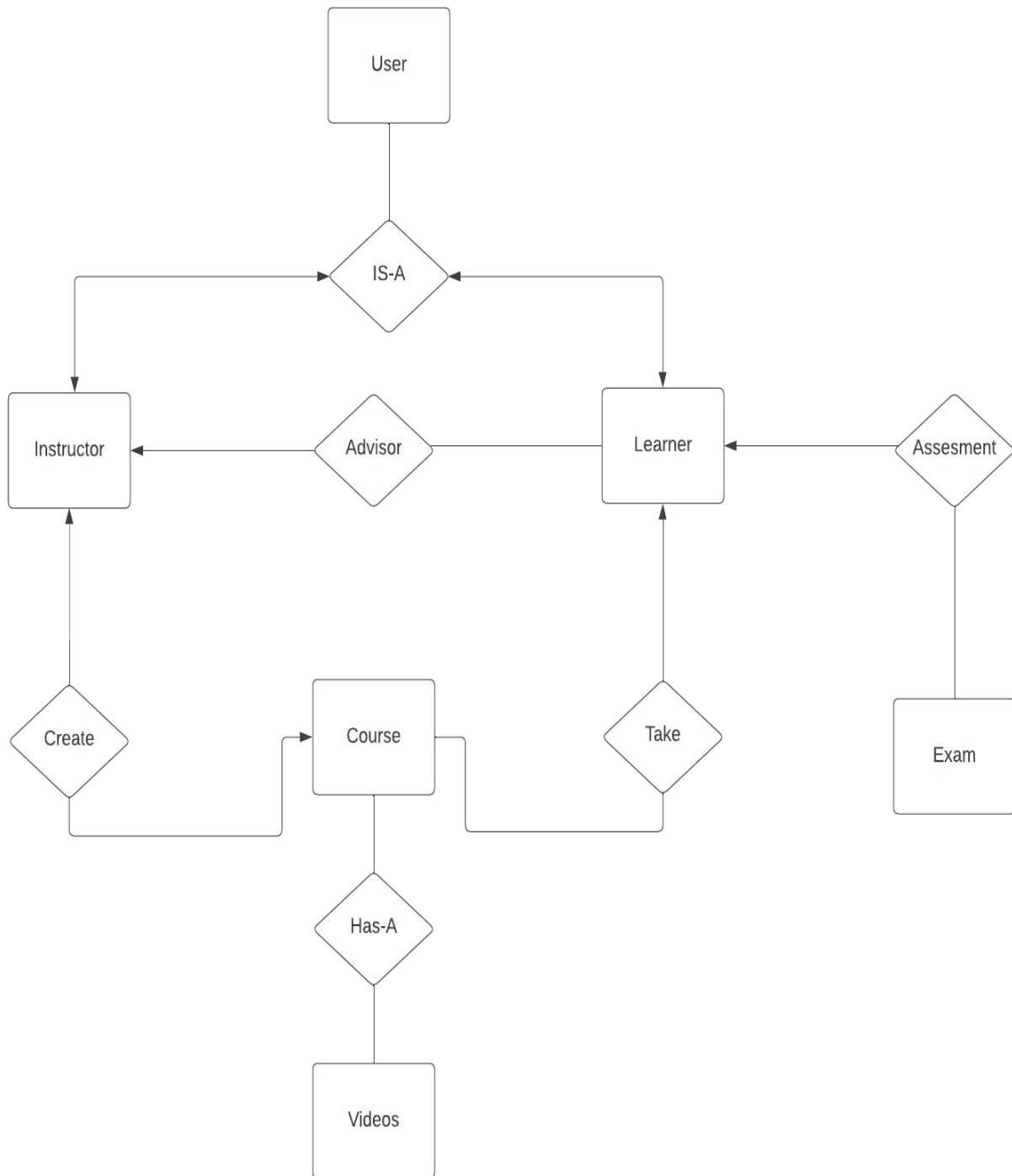
This service is not included in this Proposal., however, we can discuss your needs in this direction and agree to work on your marketing strategy in a separate agreement.

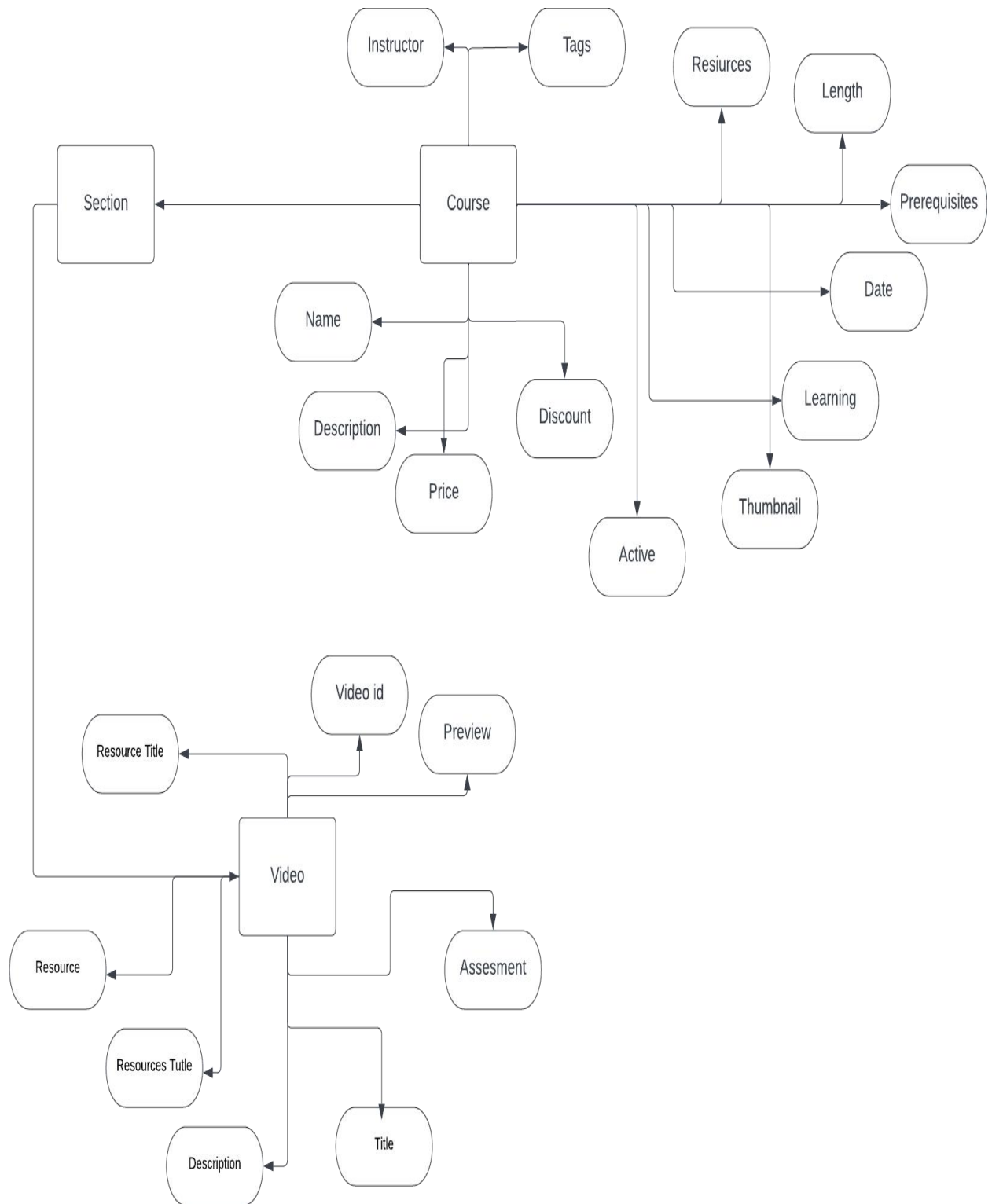
## **Site Structure:**

This is how your website will be structured:

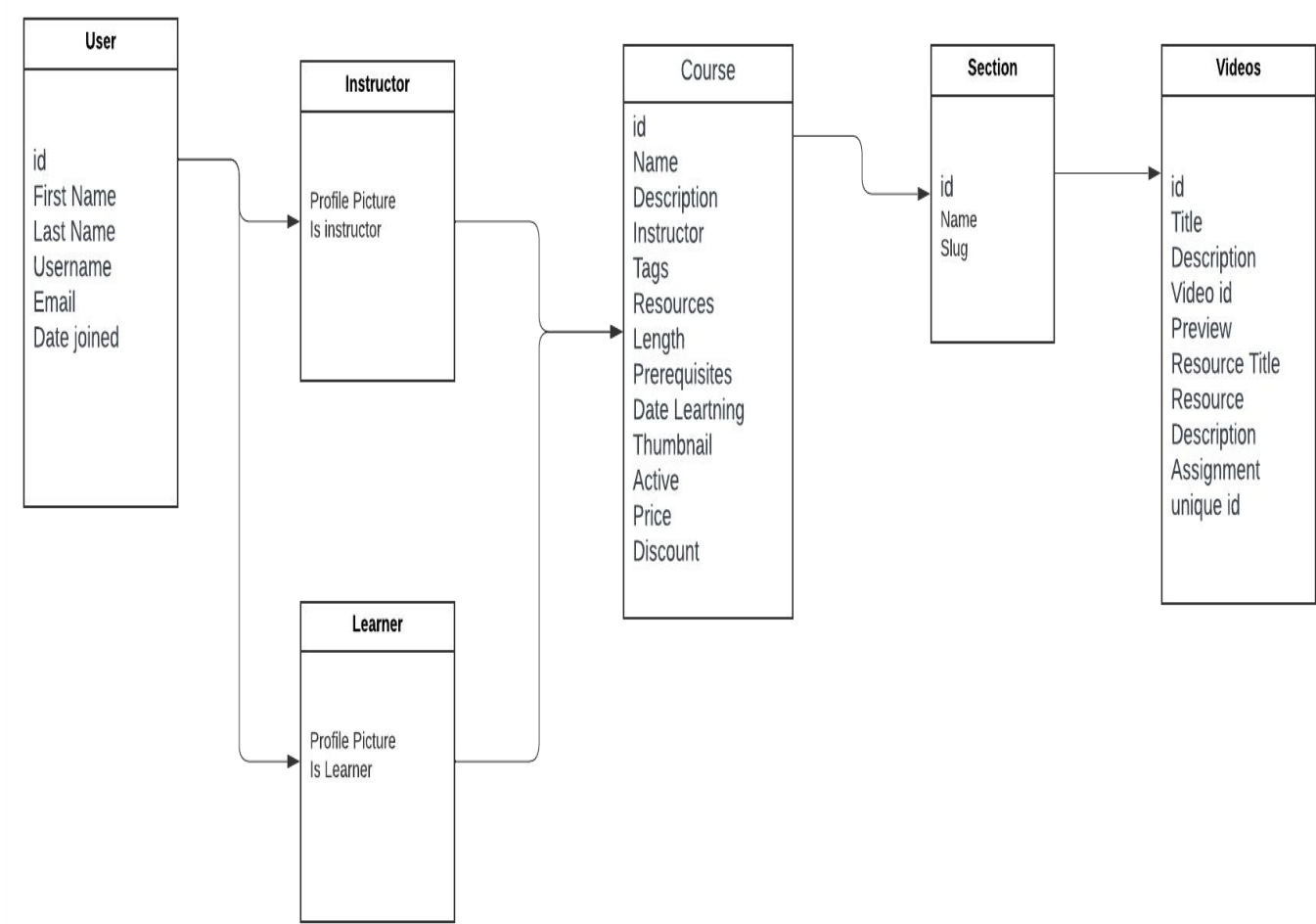
- **Home**
- **Cart**
- **Payment**
- **Profile**
- **Course Content**
- **Authentication System**
- **Other Pages**

## ER diagram:





# Schema diagram:





# Interaction Diagram:

