Basic Federal Income Tax Assistant

Hashim Hachem November 6, 2023



The Challenge

- Existing websites don't align with course material
- Outdated resources
- Complex Tax Calculators
- The *Basic* in "Basic Federal Income Tax"



Who Benefits?



- Law Students taking Basic Federal Income Tax
- Law Students who may struggle with mathematics
- Specifically tailored to course objectives

Current Options

Paywalled resources (e.g, CourseHero, Quizlet, e.t.c)

Outdated free study aids

Lack of digital companions for learning supplements & books

My solution

- The *Basic* Federal Income Tax Assistant
- Free, relevant, and up-to-date content
- Intended to complement course materials



Key Features



CHATBOT FOR DETERMINING TAX LIABILITY



PRACTICE EXAMS AND QUESTIONS FROM COURSE MATERIALS



DOCUMENT ANALYSIS FOR IRS CODE EXTRACTION



AI-POWERED Q&A SYSTEM FOR COURSE RELATED QUESTIONS

```
modifier_ob.
  mirror object to mirror
mirror_mod.mirror_object
 peration == "MIRROR_X":
irror_mod.use_x = True
"Irror_mod.use_y = False
__mod.use_z = False
 _operation == "MIRROR_Y"
 lrror_mod.use_x = False
 lrror_mod.use_y = True
 lrror_mod.use_z = False
  _operation == "MIRROR_Z":
  rror_mod.use_x = False
  rror_mod.use_y = False
  rror_mod.use_z = True
  selection at the end -add
   _ob.select= 1
   er ob.select=1
   ntext.scene.objects.action
  "Selected" + str(modified
   rror ob.select = 0
  bpy.context.selected_obj
   ata.objects[one.name].sel
  int("please select exactle
  --- OPERATOR CLASSES ----
      mirror to the selected
    ject.mirror_mirror_x*
 ext.active_object is not
```

Current Development Progress

- Currently ~75% complete
- Utilizes JavaScript, RegEx, and LLMs to enhance the learning experience
- All code, including the LLM, runs client-side
 - No API keys are necessary

In Conclusion

- Website serves as an educational companion
- Provide students with resources to excel in Basic Federal Income Tax