

Which scenario option did you choose?	Why did you choose this option?
Major Indecision	I chose option 1 because this is a real problem people face in their lifetime

Research Question	What did you learn?	Source(s) Used
What are the best methods for assessing students' interests and strengths to guide major selection?	There are plenty of methods for assessing students interests and strengths through tools like Myers-Briggs Type Indicator (MBTI) or the Holland Code (RIASEC). They can provide insight for student's preferences to make a good recommendation	<ul style="list-style-type: none"> <li>Myers, I. B., &amp; Myers, P. B. (1995). Gifts Differing: Understanding Personality Type. Consulting Psychologists Press.</li> <li>Holland, J. L. (1997). Making Vocational Choices: A Theory of Vocational Personalities and Work Environments. Psychological Assessment Resources.</li> </ul>

<p>How can a programming application be designed to effectively match students with potential majors?</p>	<p>Programming can be used to create UI's or input forms on websites to allow users to input data. Then by using algorithms to give accurate recommendations to users.</p>	<ul style="list-style-type: none"> <li>• Hsu, H. Y., &amp; Chang, C. C. (2011). "Development of a Decision Support System for Higher Education." Journal of Educational Technology &amp; Society, 14(3), 115-126.</li> <li>• Wiggins, G., &amp; McTighe, J. (2005). Understanding by Design. ASCD.</li> </ul>
<p>What are the common challenges faced in developing a decision-making application for educational planning?</p>	<p>How to ensure the data provided by users is protected and kept secure. And this application must be kept up to date with the latest educational strategies</p>	<ul style="list-style-type: none"> <li>• Preece, J., Rogers, Y., &amp; Sharp, H. (2015). Interaction Design: Beyond Human-Computer Interaction. Wiley.</li> </ul>

		<ul style="list-style-type: none"> <li>• Borenstein, J. (2013). "Data Security in Educational Applications." Educational Technology Research and Development, 61(4), 611-624.</li> </ul>
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Reflection	Response
What did you discover through your research that was new or surprising? If you didn't discover anything new, why not?	I discovered several tools that would aid in the creation of these tools. and how to assess the strength and interests of students from tools like the Holland Code and MBTI.
Was it difficult to research this information? Why or why not?	The research wasn't too difficult, it was choosing which source to use in my research.
Is it important to be able to perform good research as a programmer? Why or why not?	Yes, it is because you need to know if there's some new programming strategies or some better way to program something or make something.