

specifically for programming-related. The system can be run on a desktop. It is not yet applicable in android and IOS applications.

IV. CONCLUSION

Developed Competency Discovery System was successful in the integration of feature selection and an enhanced ID3 algorithm. With the pre-processing data procedures and user-oriented interface, other, other educational institution to forecast the assessment competency performance of their students can adopt this study.

Furthermore, the results can help Senior High School students under the ICT track to be guided in programming related assessment. The developed competency discovery system with an integrated and enhanced ID3 algorithm provides prediction results that can undoubtedly help ICT teachers to identify students that need immediate assistance and preparation for taking the national certification programming related assessment. In addition, the developed system can be beneficial to other schools or universities, ICT teachers, and SHS-ICT students.

For future work, the study can be extended with more distinctive attributes (i.e., financial status, external factors, other tracks) to get valid results, and information useful to enhance the student's assessment competency. The study can be further extended to a large number of students covering a wide area across the country. Lastly, this study can be done on a different data-mining algorithm to get a broader approach and valuable outputs.

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