File import (first screen

This is a mock-up of the User Interface for the Grade Prediction Tool, by Ethan Myers.

be imported every time the tool is run.

All text bubbles like these are comments to help you, the user, understand what I intended for the system. This is to replace me explaining how it works in person.

Grade Predictor Tool

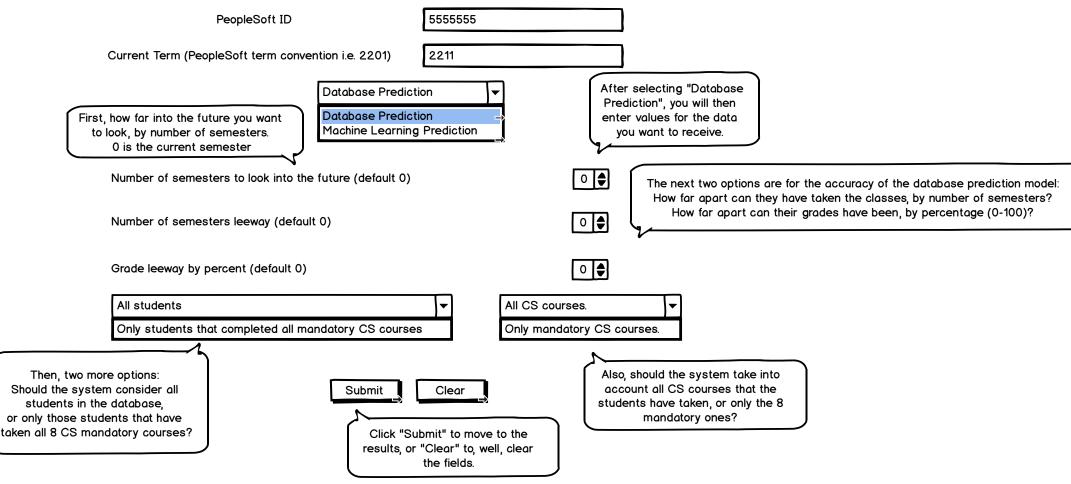
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The first screen will have a file import. This is for the CS course history for the students in the study. This data will not be stored in the database since it will have Personally Identifiable Information, and therefore must

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PeopleSoft ID						
Current Term (PeopleSoft term conv	ention i.e. 2201)					
	Select prediction me Database Prediction Machine Learning Pr		→	student's Pe current ter	g the course of enter the targeopleSoft ID, the m, and select ion method.	get he
	Submit	_		ctual tool you will	click	

In the actual tool you will click the 'submit' button to move on, but for now click "Database Prediction" or "Machine Learning Prediction" to go to their respective pages.



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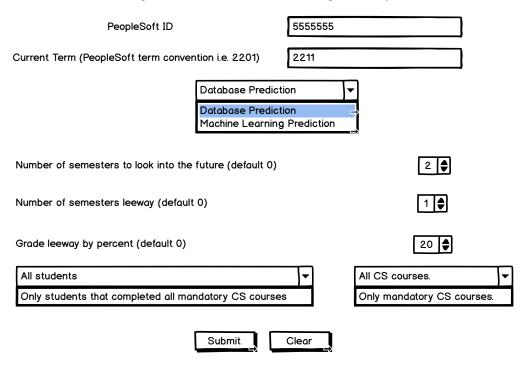
the fields.

555555 PeopleSoft ID 2211 Current Term (PeopleSoft term convention i.e. 2201) After selecting "Machine Machine Learning Prediction Learning Prediction", you will then enter values for the **Database Prediction** First, how far into the future you want data you want to receive. **Machine Learning Prediction** to look, by number of semesters. 0 is the current semester Number of semesters to look into the future (default 0) 0 All students Only students that completed all mandatory CS courses Then, one more option: Should the system consider all Submit Clear students in the database. or only those students that have taken all 8 CS mandatory courses? Click "Submit" to move to the results, or "Clear" to, well, clear

Database output

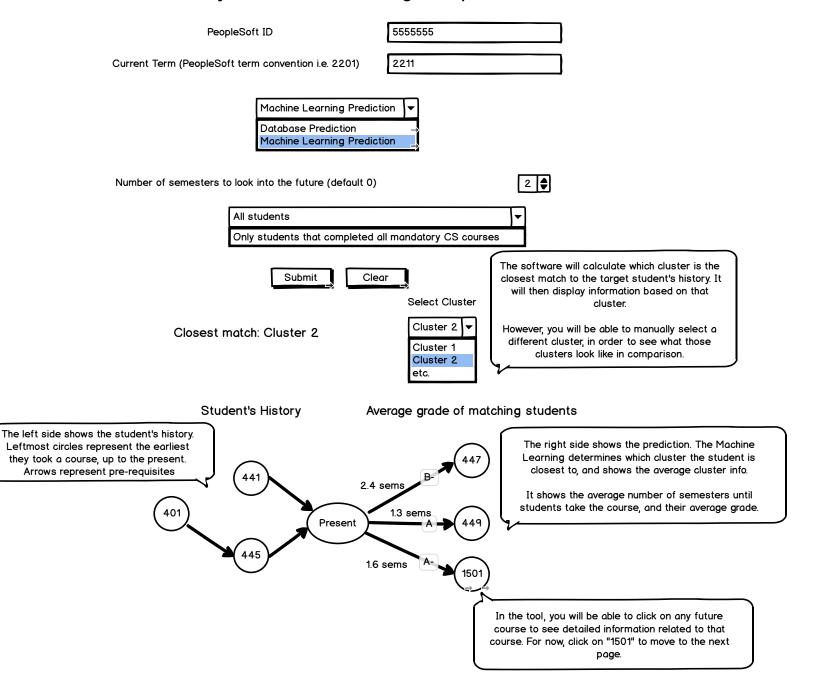
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Student's History Average grade of matching students The left side shows the student's history. The right side shows the prediction. The Database Prediction finds Leftmost circles represent the earliest students with similar histories to the student, and looks at all of the they took a course, up to the present. courses those students took starting from next semester up until the Arrows represent pre-requisites future semesters number entered above. 2.4 sems It shows the average number of semesters until students take the 1.3 sems course, and their average grade. Present 1.6 sems In the tool, you will be able to click on any future course to see detailed information related to that

course. For now, click on "1501" to move to the next



Database 1501 7 / 8

Grade Predictor Tool

