Demo

Programming Life group 2

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1 Show

Demonstrate code and answer user questions.

2 Tell

Show mockups.

Future prominent features

- Able to add modules.
  Add new modules by selecting one form a list of prefabricated modules or by setting the properties by hand.
- Able to add substrates to the cell.
  Add new substrates by selecting one from a list of prefabricated modules or by setting the properties by hand.
- Able to set module properties.
  Edit module properties after they have been created.
- Able to generate a simulation report which contains model parameters and graphs.
  These reports show the cell and it's modules with associated properties. Output formats are HTML, PDF and Excel.
- Able to save and load models.
  Save a cell model and it's modules with associated properties for future use. These saved cells can later be loaded to resume work/simulations.
- Able to save and load modules.
  Save a module with associated properties for future use. These saved modules can later be used in (different) cell models.
- Able to undo an action.
  Undo an unwanted action to restore cell to previous state.
- Able to change the reaction speed.
- Able to control simulation.
- Feedback on constructed model, such as missing modules, errors, constraints and possible optimizations.
- Multi-language support.
  View the app in the language of choice. At first Dutch and English will be supported.

3 Ask

- Formulas we don't understand.
- Can you order the list of Future Prominent Features?
- During lipid/protein synthesis, are 1 or more substrates consumed?
- When does cell mitosis occur?
- Do we have to simulate from 0 until mitosis?