

CS107/AC207 Final Project: Milestone 2B

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Due: 11:59 PM, November 12, 2020

1 PURPOSE

The purpose of this document is to serve as a progress report for Milestone 2.

2 GROUP MEMBERS AND TASKS

2.1 Junyi Guo

2.1.1 Tasks Assigned for Milestone2:

1. Finish the Milestone2 required implementation of the auto differentiation basic functions and calculations ensuring the program works for the scalar case
2. Propose additional future features for this project

2.1.2 Tasks Completed Since Milestone1:

1. Contribute to Milestone 2B
2. Generate ideas on how to create a parser

2.2 Matthew Hawes

2.2.1 Tasks Assigned for Milestone2:

1. Finish the parser function that will read and interpret user input to make it usable by `CMautodiff`
2. Test edge cases and ensure proper functionality of parser function

2.2.2 Tasks Completed Since Milestone1:

1. Organized meeting for Milestone 2B submission
2. Began work on parser function

2.3 Jack Scudder

2.3.1 Tasks Assigned for Milestone2:

1. Create task breakdown for Milestone2
2. Create full Test Suite with Travis CI and Codecov badges updated
3. Update Software Organization section of documentation
4. Overall QC for documentation; check for accuracy, thoroughness, and grammar
5. Assist in class method implementation of `CMautodiff` object

2.3.2 Tasks Completed Since Milestone1:

1. Created and submitted Milestone2B
2. Created task breakdown for Milestone2, assigned areas of responsibility, and established priorities of work/deadlines
3. Incorporated feedback from Milestone1 into Milestone2A document and submitted (saved over docs/milestone1)

2.4 Paul Tembo

2.4.1 Tasks Assigned for Milestone2:

1. Develop guidelines for download, installation, and use of package
2. Create `requirements.txt` for dependencies
3. Create `CMautodiff` object that can hold information about a variable: its value, its derivative seed value, its derivative (overloading object methods)
4. Update How to Use Package section of documentation

2.4.2 Tasks Completed Since Milestone1:

1. Assisted with Milestone2A document

2.5 Arthur Young

2.5.1 Tasks Assigned for Milestone2:

1. Ensure forward mode implementation is fully operational
2. Update Implementation section of documentation
3. Lead efforts to ensure components of `CMautodiff` are passing correct information between modules, objects, functions, etc.

2.5.2 Tasks Completed Since Milestone1:

1. Clearly delineated sub-tasks to be accomplished for forward mode implementation