

Fall 2018

Developing Soft and Parallel Programming Skills Using Project-Based Learning

Mad Scientists

Samuel Fekadu
Jason Moon
Pavel Beliaev
Christopher Wilson
Pranthi Cavuturu

Planning and Scheduling.

| Assignee Name | E-mail | Task | Duration | Dependency | Due date | Note | On time ? |
|-----------------------|--------------------------|--|----------|-------------|-------------|---|-----------|
| Pavel Beliaev (Coord) | pbeliaev@student.gsu.edu | Create the slack account as described in the assignment. | 30 min | N/A | 09/04/18 | Invite people. Ask to write member introduction. | Yes |
| | | Join Slack. Introduce yourself. | 30 min | N/A | 09/06/18 | The instruction is pinned in Slack #general channel | Yes |
| | | Attend group meeting. | 2 hours | N/A | On 09/06/18 | Discuss questions , start report formation | Present |
| | | Record video (Additional meeting). | 30 min | N/A | 09/11/18 | Instructions will be provided. (Slack) | Yes |
| | | Create and fill in the table (Work Breakdown Structure). | 1 hour | N/A | 09/13/18 | Create the table. Put all information. | Yes |
| | | Check and submit report. | 30 min | All members | 09/14/18 | Deadline: 09/14/18 11:59 PM | Yes |
| Samuel Fekadu | sfecadu1@student.gsu.edu | Join Slack. Introduce yourself. | 30 min | N/A | 09/06/18 | The instruction is pinned in Slack #general channel | Yes |
| | | Attend group meeting. | 2 hours | N/A | On 09/06/18 | Discuss questions , start | Present |

| | | | | | | | |
|--------------------|------------------------------------|--|------------------------|------------------------------|----------|--|-----|
| | | | | | | report formation . Record video. | |
| | | Record video. (Additional meeting) | 30 min | N/A | 09/11/18 | Instructio ns will be provided. (Slack) | Yes |
| | | Make a video editing. | 2 hours | All membe rs | 09/13/18 | | Yes |
| Panthi Cavuturu | pcavuturu 1@student .gsu.edu | Join Slack. Introduce yourself. | 30 min | N/A | 09/06/18 | The instructio n is pinned in Slack #general channel | Yes |
| | | Attend group meeting. | 2 hours | N/A | 09/06/18 | Discuss questions , start report formation | Yes |
| | | Make a title for the report, create report sections, put group answers. | 1 hour 30 min | All membe rs (answ) | 09/10/18 | See instructio ns (Project_ A1 doc) | Yes |
| | | Record video. (Additional meeting) | 30 min | All membe rs | 09/11/18 | Instructio ns will be provided. (Slack) | Yes |
| Jason Moon | jmoon22 @student. gsu.edu | Join Slack. Introduce yourself. | 30 min | N/A | 09/06/18 | The instructio n is pinned in Slack #general channel | Yes |
| | | Communicate with group members and choose the name of the group | 1 hour | All membe rs | 09/08/18 | Upgrade group name on Slack | Yes |
| | | Attend group meeting. | 2 hours | N/A | 09/06/18 | Discuss questions | Yes |

| | | | | | | | |
|--------------------|-----------------------------------|--|------------|------------------------------------|---------------------|--|-----|
| | | | | | | , start report formation | |
| | | Record video. (Additional meeting) | 30 min | All membe rs | 09/11/18 | Instructio ns will be provided. (Slack) | Yes |
| Christopher Wilson | cwilson94 @student. gsu.edu | Join Slack. Introduce yourself. | 30 min | N/A | 09/06/18 | The instructio n is pinned in Slack #general channel | Yes |
| | | Attend group meeting. | 2 hours | N/A | 09/06/18 | Discuss questions , start report formation | Yes |
| | | Collect screenshots from Slack. (Member Intro) | 30 min | All membe r respons es | 09/07/18 | Send to Pranthi Cavututu | Yes |
| | | Record video. (Additional meeting) | 30 min | All membe rs | 09/11/18 | Instructio ns will be provided. (Slack) | Yes |
| | | Create YouTube channel. Upload video on YouTube. | 30 min | Samuel Fekadu | 09/14/18 6:00 PM | Check PM for username and password for Google account | Yes |

Teamwork basics.

What to do to get the task accomplished and the team members' satisfaction high?

To get the task accomplished and the team members' satisfaction high, we are setting ground rules pertaining to due dates, finishing tasks, and group discussions. The entire group will act as a facilitator and work on keeping each other on task.

Answer all the questions in the Work Norms, Facilitator Norms, Communication Norms using your own words and your own context.

Work Norms:

How will work be distributed?

We will work to each other's strengths in that those who are good with video editing and documentation will be given tasks to reflect their strengths while also trying to improve their weaknesses.

Who will set deadlines?

The team coordinator will set the deadlines.

What happens if someone doesn't follow through on his/her commitment (for example, misses a deadline)?

The group will approach him/her, ask the person why he/she was not able to fulfill their commitment, and discuss a plan considerably to finish the necessary tasks by another person or a whole group. A person who doesn't follow the coordinator's requirements will receive a "Did not do the assigned task" on Work Breakdown Structure.

How will the work be reviewed?

Work will be reviewed by both the coordinator and the rest of the group in order to come to consensus on the whether the quality of work was sufficient and meets the tasks requirements.

What happens if people have different opinions about the quality of the work?

As a group, there will be a discussion as to what kind of quality we need for the specified task as well as what was presented. The group as a whole will come to a consensus on what steps need to be taken to meet that common ground.

What happens if people have different work habits (e.g., some people like to get assignments done right away; others work better with the pressure of a deadline)?

When it comes to work habits, we can cooperate with each other so that the work is distributed amongst those who have similar work habits leading to a evenly distributed trend of working habits. We will avoid putting group members with opposite work habits together on a single task.

Facilitator Norms:

Will you use a facilitator?

We will not be using a facilitator.

How will the facilitator be chosen?

If a facilitator is necessary at any point, we will analyze the productivity of each group member and his/her ability to coordinate the group's needs.

Will you rotate the position?

Whether or not the facilitator is rotated depends on the success of the facilitator to do their job as well as that of the need of a facilitator. If the facilitator is no longer needed, the position will be removed from the group.

What are the responsibilities of the facilitator?

The responsibilities of a facilitator are keeping the group on task and ensuring productivity.

Communication Norms:

When should communication takes place and through what medium (e.g., do some people prefer to communicate through e-mail while others would rather talk on the phone)?

Communication will take place regularly through Slack and group meetings.

As a team, select two cases out of the four mentioned in Handling Difficult Behavior. (use your own words and your own context)

If a person is overly talkative, the group will use humor to prevent him/her from talking. If the behavior continues, we will speak to them privately and ask that he/she give everyone a fair share of talking. If a person argues constantly, we will try to keep an open mind to their ideas. However, if it is better proven to be distracting, we will ask them to compromise. We will let them know that their idea is valued, but that it is not allowing us to be productive.

When making decisions, If the team is having trouble reaching consensus, what should you do? (use your own words and your own context)

The team will create a poll to vote on several ideas. We will choose the idea that received the most votes. If there is a tie, we will drop the least voted idea and recast the vote. For quicker solutions, we will ask the coordinator to make the decision.

What should you do if a person may reach a decision more quickly than others and pressure people to move on before it is a good idea to do so?

A common saying comes to mind with this issue which is "Haste makes waste." and because of that we should ask questions along the line of "Are we all ready to make a decision on this?", "What needs to be done on this before we can move ahead?", or say something like "Let's check and see where everyone stands on this.", and make sure that everyone agrees that we are ready to move on before we try to move on in the project.

What happens if most people on the team want to get an "A" on the assignment, but another person decides that a "B" will be acceptable?

We will note down the amount of work that the person expecting an A accomplished and the amount of work the person expecting a B accomplished and determine what grade they deserve. We will use the expectations as a base for future assignments and the tasks allocated for each student.

Appendix.

Slack group link:


<https://madscientistsgsu.slack.com>

YouTube channel link:

<https://www.youtube.com/channel/UCwX3csMyKmIZLRPmLBuAk5Q>

Member introduction screenshots:

★ Pinned by @Pavel Bellaev

 **Pavel Bellaev** 10:04 PM

Member introduction.

Name: Pavel Bellaev.


Interests: Computer science, especially programming. Hard mathematical problem-solving.

Assigned tasks: Creating Slack group, inviting members. Creating and filling Work Breakdown Structure. Group meeting organization. Participating in group discussions. Report formation and submission.

The expectation from this project: Learn a lot of useful information about the X86 processors: how does it work and how can we use it. Have fun 😊 (edited)

Today

★ Pinned by @Pavel Bellaev

 **Pranathi** 11:35 AM

Member introduction:


Name: Pranathi Cavuturu

Interests: Subject wise in school, I love Calculus and Physics.

Assigned tasks: Introducing myself, making a title for the report, report sections, formatting the report as required, recording video, and attending and participating in group meetings

Expectations from this project: other than gaining more group experience, I hope to be able to dive deep into the hardware aspects of Computer Science. The only knowledge I have is coding Java, so I hope to build a foundation overall in Computer Science.

★ Pinned by @Pavel Bellaev

 **Samuel Fekadu** 12:47 PM

Member Introduction:

Samuel Fekadu

My interests are learning the mechanics of things or just how things work in general by disassembling and reassembling


Assigned Tasks:

- Submitting my answer video
- Editing and rendering the final group video
- Sending the final video for upload to YouTube

Expectation from this project:

- Gaining group experience in a CS environment
- Cooperative instincts
- Learning a new development language (edited)

★ Pinned by @Jason Moon

 **Jason Moon** 4:47 PM

Member Introduction:


Name: Jonghan Moon

Interest: Video games, Building Computers and other related hardware techs.

Assigned Tasks: Joining Slack, Namong the group, recording the video, attending scheduled group meeting, help other group members.

Expectation: To learn and the fundamental of Comp sci that can help me apply the knowledge to other fields to better myself in overall field of Comp Sci

★ Pinned by you

 **Christopher Wilson** 9:00 PM

Member Introduction:

Christopher Wilson

My interests are in gaming, and learning how computers work(both the software and hardware aspects)

Assigned Tasks:

- Join Slack. Introduce myself (this)
- Collect screenshot of introductions from Slack.
- Create YouTube channel. Upload video on YouTube
- Attend group meeting.
- Record video

Expectation of this project: Learn how to work well with my team members, and get a good foundation to learn comp sci better.