Recitation 10: Final Project Tips

Team Workflows + Websockets

last recitation :')

Agenda

🤝 Advice for team workflows

📝 Project idea tips

💻 WebSocket example

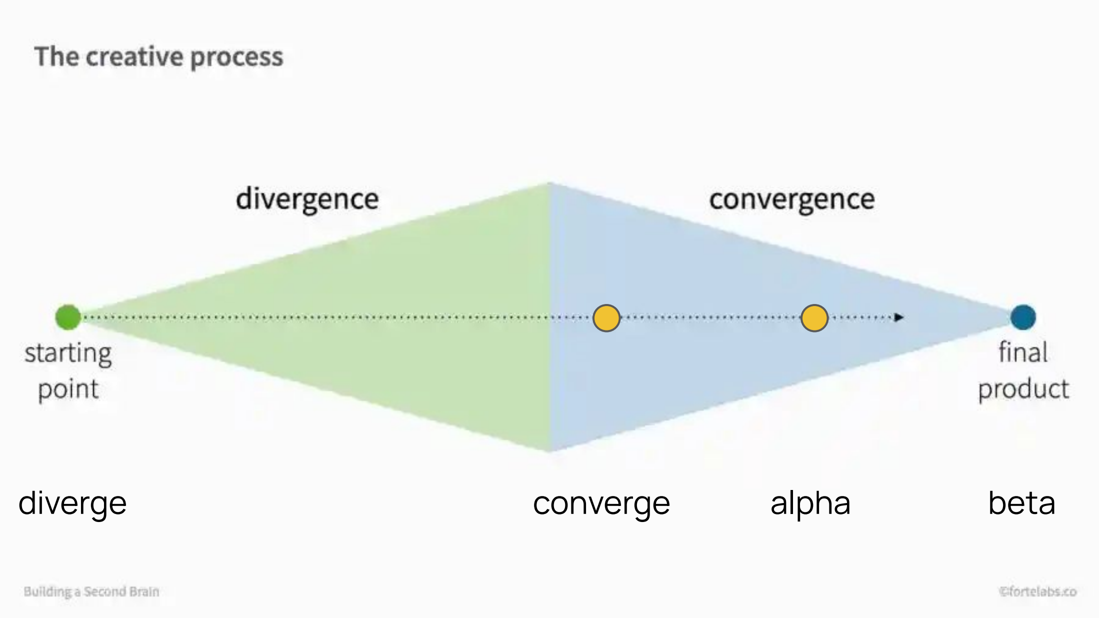
👩‍💻 Programming Resources

Splitting Workload

- Team Contract 🤝
- Each member:
    - 1) roughly the same amount of work
    - **2) must participate in all software development activities**
        - **Designing 🖼️, coding 👩‍💻, pitching 🗣️, etc.**

Splitting Workload

- Design first! Remember **diverge → converge** framework. Iterate as you go.
  - Collaborative design at every stage

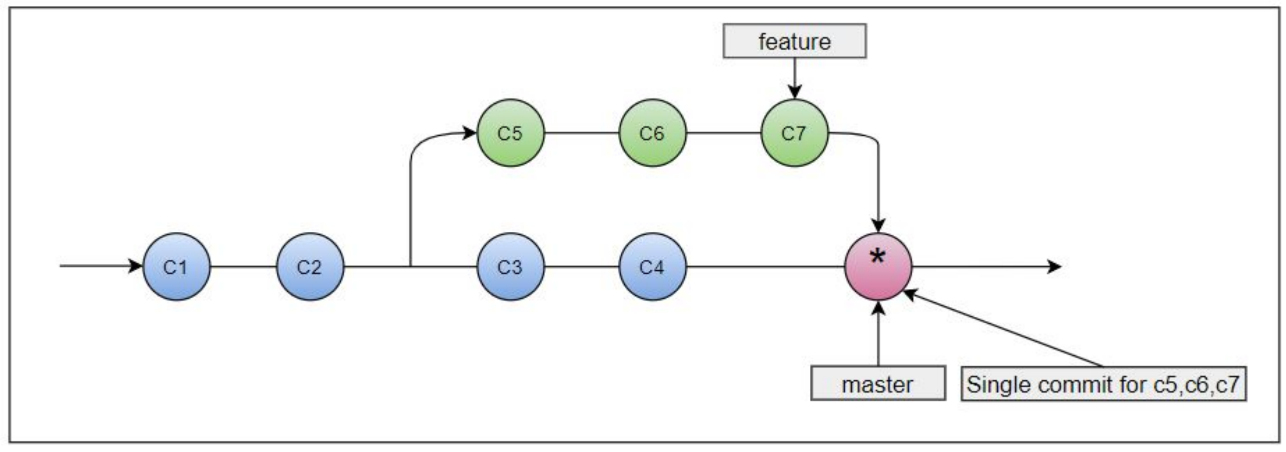


Team Dynamics

- **Have internal soft deadlines for smaller deliverables**
    - avoid empty page syndrome (esp for alpha + beta)
- **Have one person be sort of a project manager**
- **Schedule recurring team meetings**
    - 1) Synchronous meetings - check in and plan for next steps + mentor meetings
    - 2) Work sessions - pair program/debugging (VSCode liveshare)
- **Possibly use project tracker system (Google doc, asana, jira, etc.)**
    - Things often take longer than expected
- **Maybe have each person to be in charge of implementing a concept**

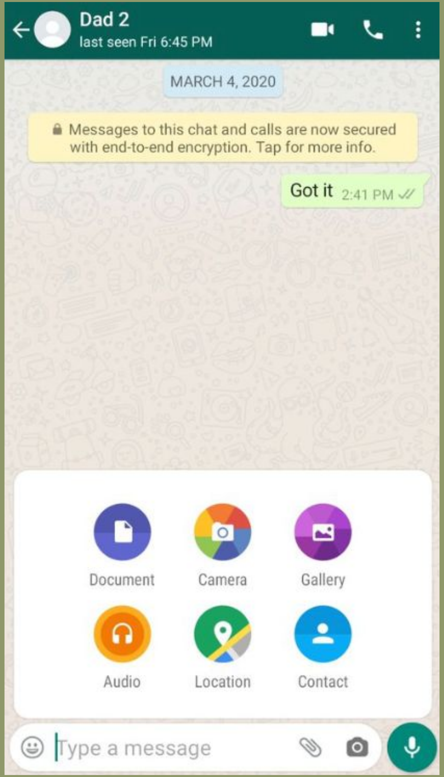
Git workflows

- Working in feature branches - Git Branches
- To merge your work into the main branch - Squash-Rebase-Workflow
  - you can create pull requests and review each other’s code
- R



Deployment

- **Deployment Guide**
- Using **Vercel** is recommended
    - Create shared vercel + github account for deployment
    - Moira mailing list
- **Heroku** can be more flexible
    - WebSockets (socket.IO) for real time communication



Dad 2
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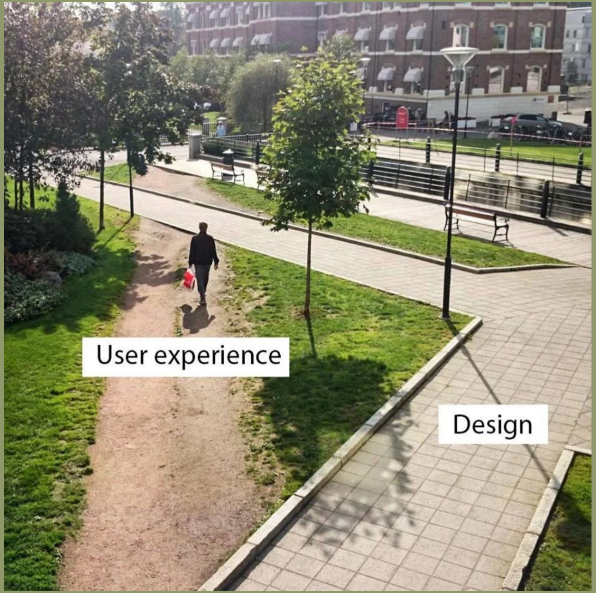
MARCH 4, 2020

Messages to this chat and calls are now secured with end-to-end encryption. Tap for more info.

Got it 2:41 PM

Project Idea Tips

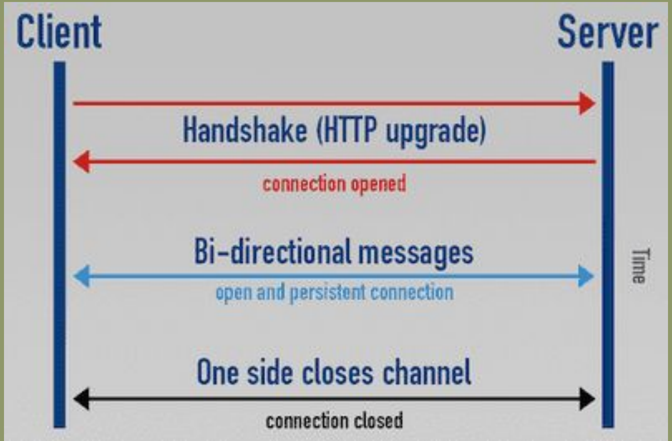
- **Do some background research into the problem space.**
  - Remember the need-finding lecture?
- **Keep in mind authentic apps vs. inauthentic apps**
  - Is there a compelling need for your app?
  - Does your project resemble one of the projects we encourage you not to do?
- **Remember concept adoption, adjustment, invention (go back to A2 + A3)**



Any Questions?

WebSockets Messaging App

- It is useful for developing real-time application like chat system
- In HTTP, server respond only when the client requested
- In Websocket, server and client can exchange data with much more freedom using the sockets.
- Vercel doesn’t support it (Heroku does)



Socket.IO

- Built on top of the WebSocket
- Go through messaging app example:
    - https://tinyurl.com/final-rec

Resources

- Programming Resources for 6.1040 Final Project