

Agenda

Anovote

- Buy domain ?
 - anovote.io ? 450-600 kr for a year
 - Can not buy .vote domain - requires to have a "clearly identified political/democratic process at the time of registration"

Frontend

APP

CODE

- Do we need an APP?
- App software - multi platform?
 - Flutter (Dart)
 - ReactNative(JS)
 - Xamarin(C#)
 - Cordova(JS)
 - NativeScript (JS)

FEATURES

- Cast vote :D
- Use WebSockets for realtime
- Login / authenticate using different options
 - No registration!
 - By link and token
 - QR code
 - Code (token?)
 - Phone number?
- See results of each vote if enabled by vote caster
- Can close and open app and persist session :D
- Must not get timed out after X seconds :D

WEB

CODE

- Code and framework?
 - React, Vue, Angular, None?
 - Typescript ?
 - C# ?
 - SASS/SCSS ?

FEATURES

- Admin panel for vote creators
 - Create new vote
 - Types:
 - One vote on subject
 - Rankings
 - Multiple votes in a vote session
 - Each vote can be different type ^
 - Invites / joining
 - Invite people by email
 - Invite by SMS
 - Share link
 - Can be password or non password protected
 - Scan QR code
 - By code
 - See casted votes results
 - Create PDF export
 - Mail result
 - See current vote results in real time
 - WebSocket for realtime
 - Graphs?
 - Broadcast results?
 - Login / Logout
 - Profile
 - Change pw
 - Change email

backend

CODE

- Language and framework
 - Dart ?
 - C# (.net core) ?
 - Java (Jakarta EE / springboot)?
 - JS/TS
 - NodeJS / Deno (Express, Sails)?
 - Python ?
 - FastAPI ?
 - Flask?

FEATURES

Database

SQL or NoSQL or both ?

Structure

- Vacation / break
 - What do we do if we need / want a break ?
- Not able to meet for Meetings, Sprint planing, Reviews?
 - Provide legit reason?
 - Punishment? Buy beer for the team?
- We all must write logs?
 - For validating our contribution to the project
- Planning
 - GitHub Project
 - Backlog
 - Selected
 - In progress
 - Done
- Sprints
 - Frequency?
 - Weekly?
 - 2 Weeks?
 - Where to write sprint retro?
 - Can we start/move on task if we complete all tasks before sprint is due?
 - GitHub does not support Story Points by default
 - Ignore points?
 - Write it on top of task?
- Documentation
 - GitHub WIKI
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GIT

- Git FLOW ?
 - <https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow>
 - Master = release
 - Develop = "stable" / beta
 - Other branches for develop
 - Commit message structure?

- **Fix** bug in remote code
 - **Add** unit test for validation
 - **Update** dev dependencies
 - **Remove** old unused code
 - **Refactor** the best class there is
- Rebasing before mergig
 - CAN BE DANGEROUS IF MULTIPLE ARE WORKING ON SAME BRANCH AS WE ALTER HISTORY
 - To fix commit message
 - Squash, or delete commits
- Multiple Reops or single repo?

Editors and style

- Settle on an editor to use
 - If we choose different editors, we have to have EQUAL Formaters!!!!
- Settle on code style > brackets, comments

Server/Cloud

- Which cloud service should we go for?
 - AWS, Google, Azure, DigitalOcean : combination?
- Pricing?
 - Azure and AWS can be pricy
- Student accounts?
 - AWS and Azure provides student accounts with credits
 - Google is cheap (almost Free) for low data usage
- Docker?
- App Serivce?
- Virtual machines?

Testing/validation

- Unit testing (Single piece of code - class, function etc)
 - We need unit testing: select a framework for the language we are to use
 - Should be run on deployment
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- Integration testing (Testing if things work together)
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- GUI testing (Is the gui working on state change, looks alright, etc..)
 - Mostly manual process when creating
- API testing
 - POSTMAN
 - <https://www.postman.com/automated-testing/>

- Can share a collection for API endpoints in a Colab group
 - Every one can access the same created endpoints
- Can run automated tests
- Variables
- Testing locally
- GitHub Action
 - Used to run UnitTests
 - Used to run Style checks
 - Used before Integrate (Merge into Master)
 - Unit tests
 - Style check
 - Integration test
 - Used run after integrate to Deoply (Launch master on servers / ship new release)