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Project Assignment

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Messaging application

- Click through the prototype
  - Go to **https://www.fluidui.com/editor/live/preview/cF82N211bDdjMER4Y0F3UERBWFdsT1RMOWxxdVAwSFUzTQ==**
  - When prompt appears fill **any name** and **email**
  - If you do not see Sign up page, click ***Restart preview*** (on the left middle part of the page)
  - Prototype is mean to show intentions and features (not design) and is not complete

- You can also find some inspiration in messaging tools like *Slack* or *MS Teams* or *Skype* or *HipChat* or *Bitrix24* or *Roctek.Chat* or *Jostle* or *Moxtra* or *Azendoo* and others

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Feature set

Teams of 1

- Channel management
  - Create new (only 1 owning user)
  - Delete exiting (owned only)
  - Invite user(s)
  - Change name
- Messaging in channels
  - Send plain text
  - Delete sent messages
  - Profile picture next to each message
  - Message up/down-voting
- Profile management
  - Upload a picture
  - Change displayed name
    - Use email strictly for sign in and invitations

Teams of 2

- Everything for teams of 1
- Channel management
  - Privilege settings
    - other users can become owners or admins or can be removed from a channel
    - users can leave channels (unless last being last owners)
- Messaging in channels
  - Edit sent messages
  - Rich text editing experience
    - Font size, font color, triple emphasis, links, …
  - Annotate existing user
  - Attachments
    - At least attached to the message
    - Images should have previews

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Other requirement

- Keep your project's structure similar to the reference implementation
- Write tests for
  - Reducers
  - Thunk actions
  - Utility functions
- Write code based on SOLID, YAGNI, DRY, KISS principles
- Follow best practices (these can usually be found in the documentation of respective packages)

- Provide your users with indication on asynchronous operation progress
  - a loading spinner of some sort, …
- Try to find a way to deliver new messages to your users even when they do not interact with your application
  - You are provided with REST API, so new messages are delivered from the server only on your application's explicit request (→ no WebSocket involved) → messaging is not expected to be instant

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Where to start

- Create UI using react & redux
  - Use whatever IDE you want, but we recommend WebStorm (free for students)

- Connect your UI to the server
  - See https://pv247messaging.azurewebsites.net/help/
  - Create an appId using POST on /api/app
  - To create a login/register login:
    - PUT request on /api/{appId}/{new-email}
    - Add Authentization attribute to the request header (use bearer authentication: { 'authentication': '{bearer} {token}' })
    - place any data your application needs to store into customData field

- Use https://github.com/KenticoAcademy/PV247-2017/releases as a reference implementation
  - There might be a bug or two. Either use latest version or search for fix in GitHub release description
  - Feel free to browse REST API source code as well: https://github.com/KenticoAcademy/PV247-API

- Do not store/use/send any personal or sensitive information over the API

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Problems or Questions or API bugs

- Browse through reference code or API source code
  - https://github.com/KenticoAcademy/PV247-2017/releases
  - https://github.com/KenticoAcademy/PV247-API
- Use Discussion groups – courses application in IS
  - Read through the existing threads first, please
  - Attach a link to the problematic code in your repository (if applicable)

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Submissions

Deadline
16. 12. 2017 23:59

- Insert a link to your public GitHub repository into *Project* homework vault ("odevzdávárna")
  - **Teams of 1**: Only one GitHub account is supposed to commit to the repository.
  - **Teams of 2**: Link your UČO/names with used GitHub accounts. Only two GitHub accounts are supposed to commit to the repository.