

Auditorium B3 001
Thursday 13.00 - 13.30

Tim Hilhorst
Front-end developer

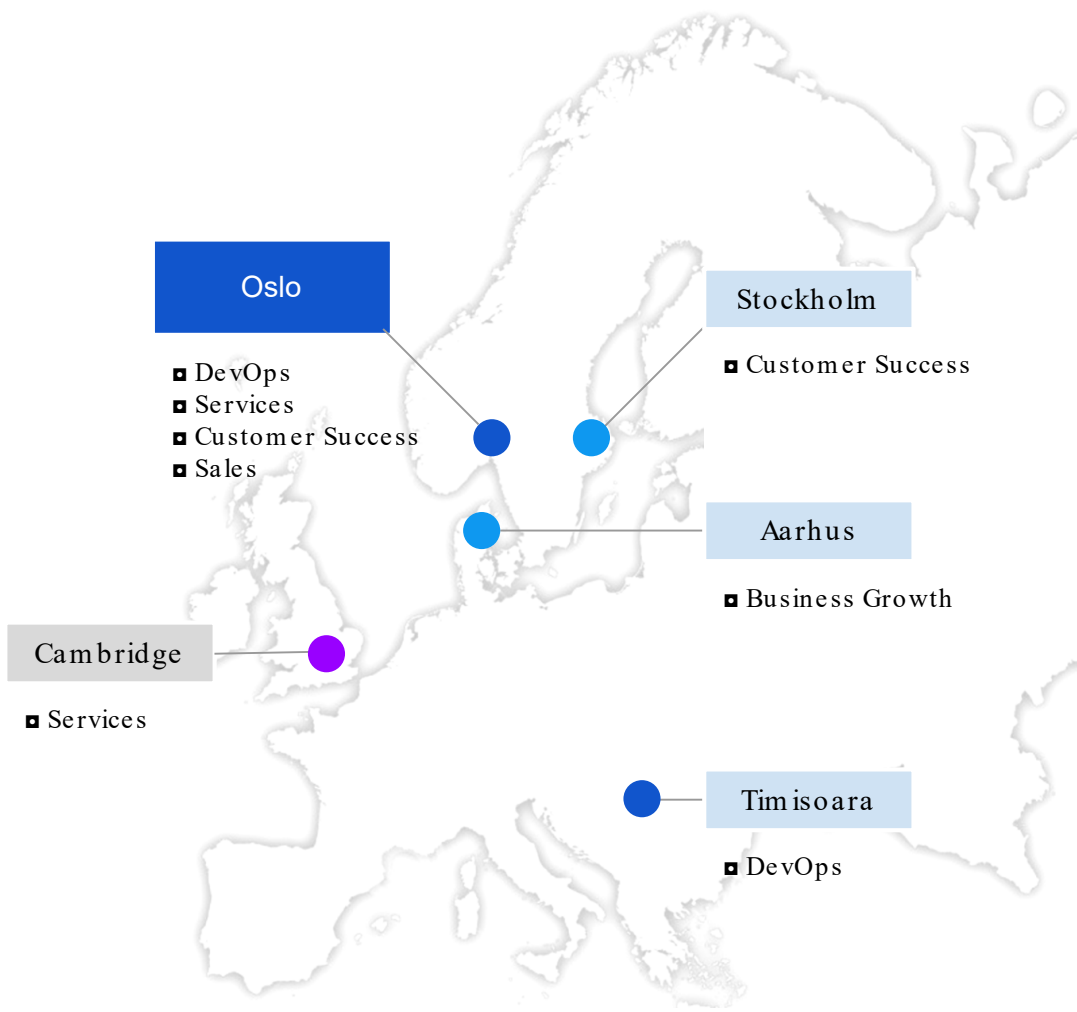
Necessary for a few, beneficial to all

Accessibility in Inspira Assessment product design & development

Essentially Scandinavian

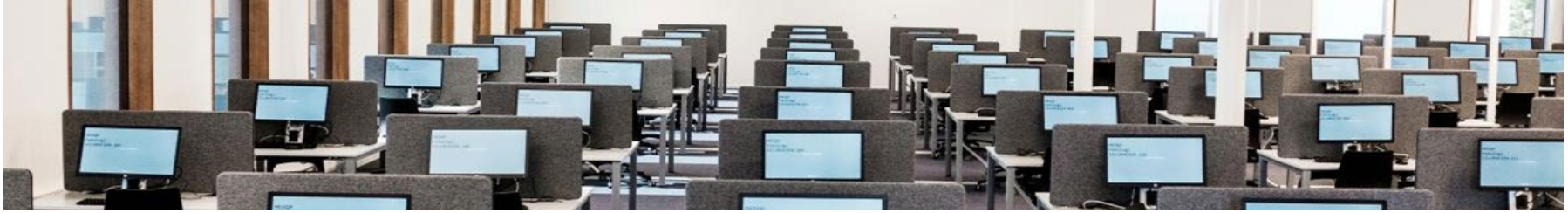
Reaching Europe

- 45 employees in Oslo
- 6 employees in Sweden and Denmark
- 8 “employees” in Romania
- 20% (9) recruited in 2017
- 57% (25) non-ethnic Norwegians
- Ambition to open office in Cambridge 2019
- 60+ employees in 2019



Platform Modules

Cloud -based. Complete. Modular. Loosely coupled. Platform agnostic.

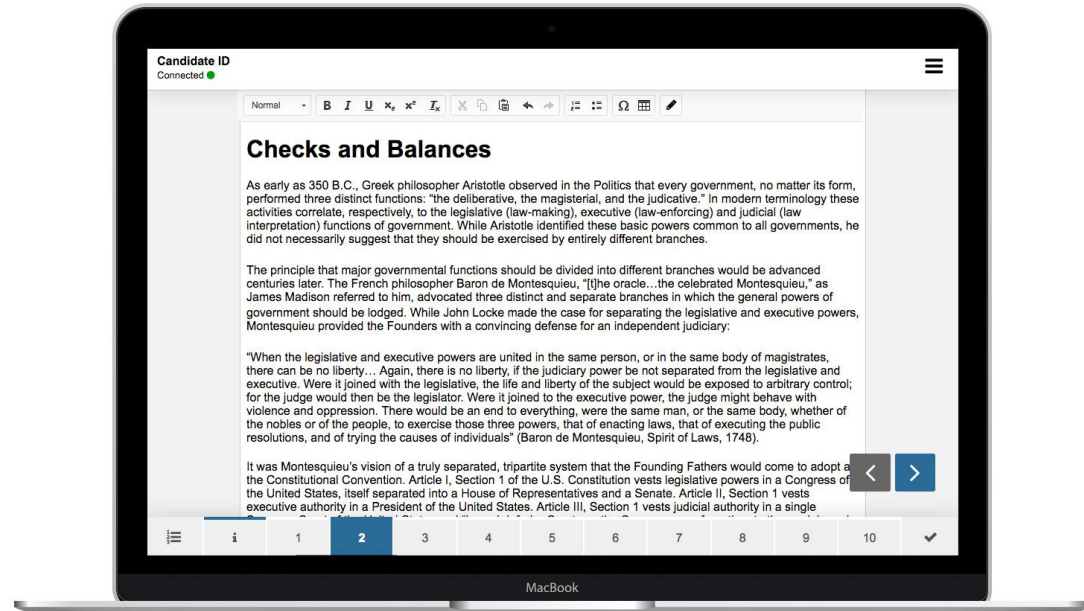


| Authoring | Planning | Test Delivery | Monitoring | Marking | Results |
|-------------------|-----------------|-------------------|---------------------|--------------------|-----------------------|
| Question Set | Test management | Test Taking | Incident management | Mark schemes | Results determination |
| Question | | Lock-down browser | Central monitoring | Manual assessment | CCT Analytics |
| Item Banking | | Offline Delivery | Invigilation | Automatic scoring | IRT Analytics |
| Test Construction | | Universal Access | | Annotation | Archiving |
| Workflows | | Adaptive testing | | Learner feedback | |
| | | | | Appeals | |
| | | | | Plagiarism checker | |

Open, flexible and student -friendly

We believe in more flexibility where students gain more control of their assessments.

- **Paper.** Say goodbye to writer's cramp, illegible handwriting and assessing 20th century writing process (pen & paper)
- **Appealing.** Delight the millennial learners through a user-friendly state of the art, responsive, single-page Javascript front-end
- **Any place, any time.** Deliver exams at test centers with dedicated equipment, or support home exams with bring-your-own-device (BYOD)



Testing drives learning

Flexible learning and flexible assessment goes hand in hand.



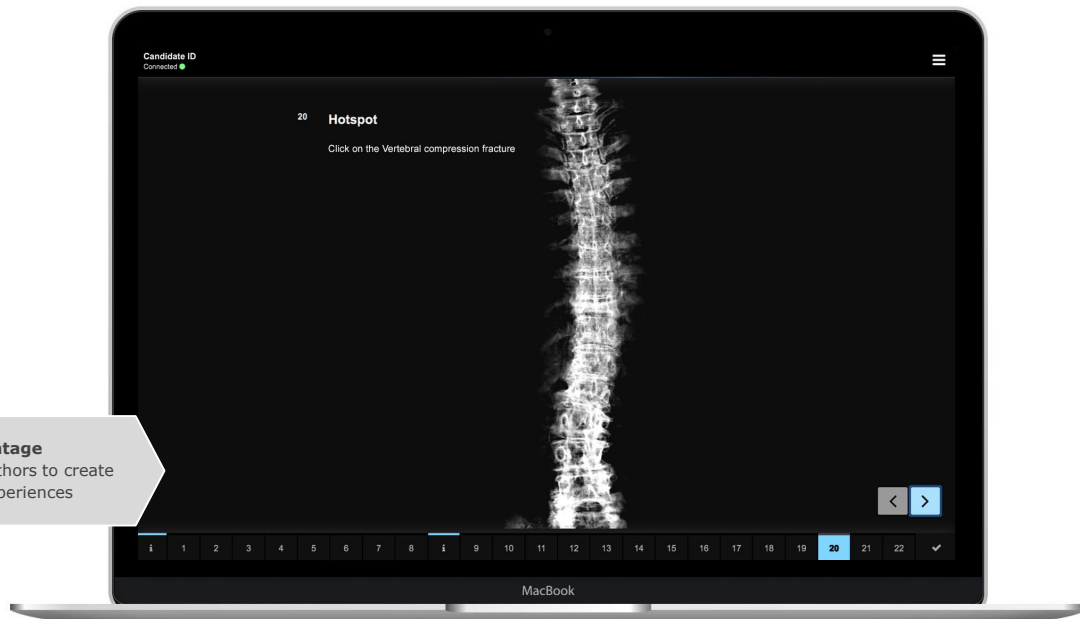
React + Redux



- **Content.** Connect learning and examination by reusing question and questions sets in both formative and summative assessments
- **Feedback.** Add detailed feedback for formative assessments such as hints, and feedback for each answer alternative

Facilitate Home Field Advantage

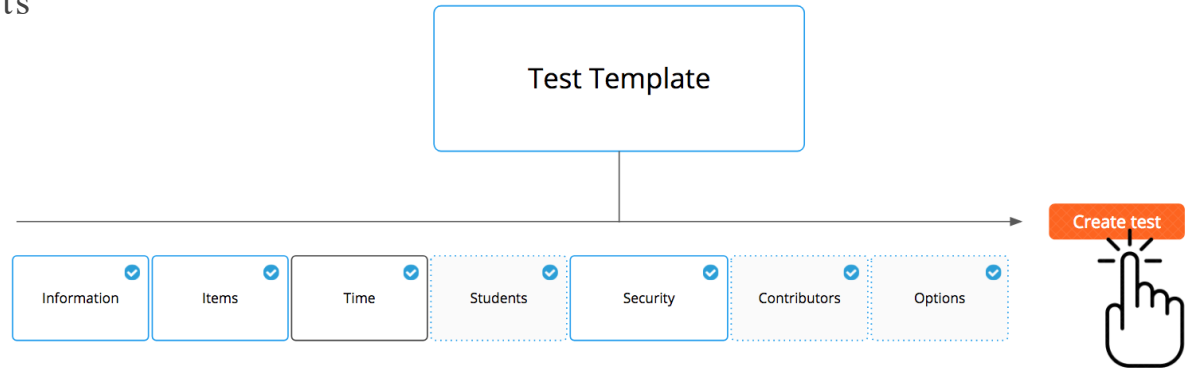
Inspira Assessment allows authors to create tests that simulate real-life experiences



Common Assessment Formats

High Stakes Exam as core

- Closed book exams
- High-stakes, qualification tests
- Thesis submissions
- Open book exams
- Progression tests
- Formative Tests
- Standardized tests

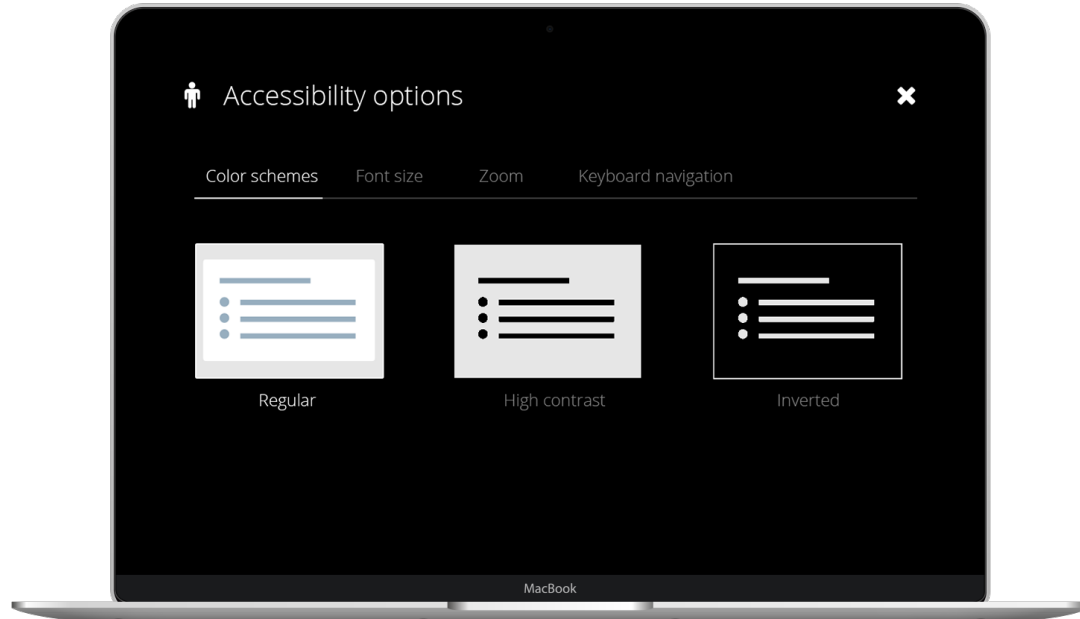


Inclusive assessment

All students should have a fair, supported assessment experience.



- **Responsive.** Fit all screens and form factors through responsive design, and preview the tests for different screens during authoring
- **Individual.** Differentiate exams for individuals, add extra time, spellchecker or turn off the lock-down browser
- **Accessible.** Fully accessible delivery player by supporting keyboard navigation, zooming, screen reading, colour inversion and more
- **Flexible.** Allow test candidates to change the locale of the test (each test can be available in multiple locales)



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Accessibility compliance

Accessibility options and interactions

Accessibility standards at Inspera



Internal awareness and education

Perceivable

- Options to set alternatives to images, videos
- Distinguishing visual elements

Operable

- Keyboard accessible
- Extra time
- Clear navigation

Understandable

- Readable and understandable (R&D)
- Spell-checker and validity checker

Robust

- Browser and device compatibility
- Lock-down browser with all settings

Testing throughout development

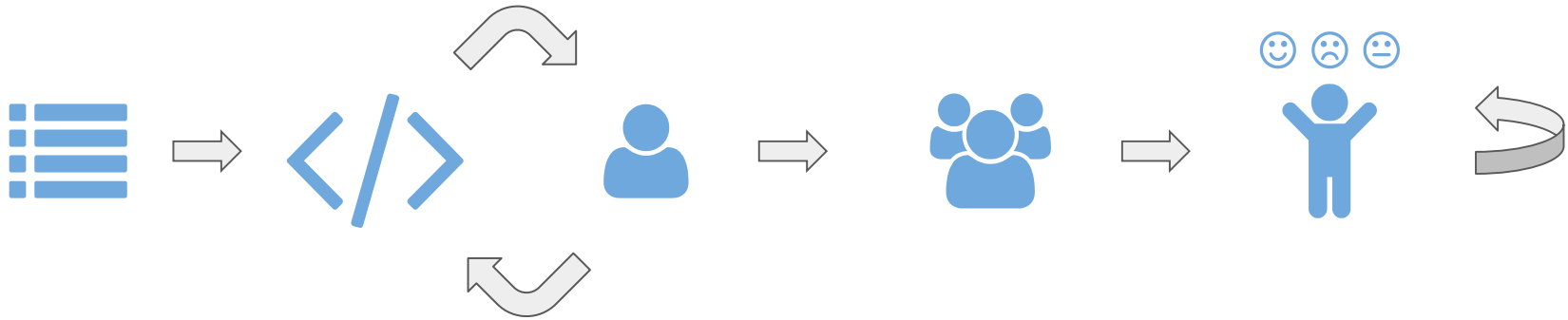
Specification
Confluence, JIRA

Development
Local, development
environment

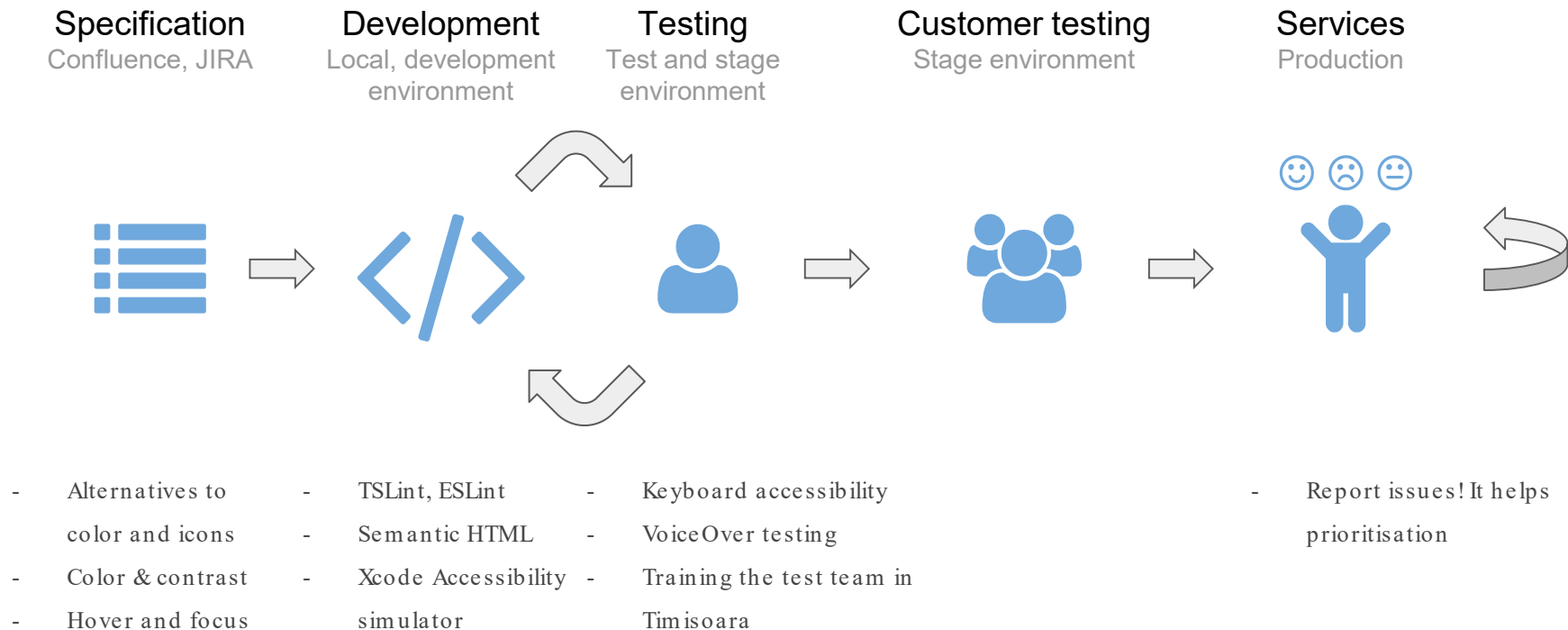
Testing
Test and stage
environment

Customer testing
Stage environment

Services
Production



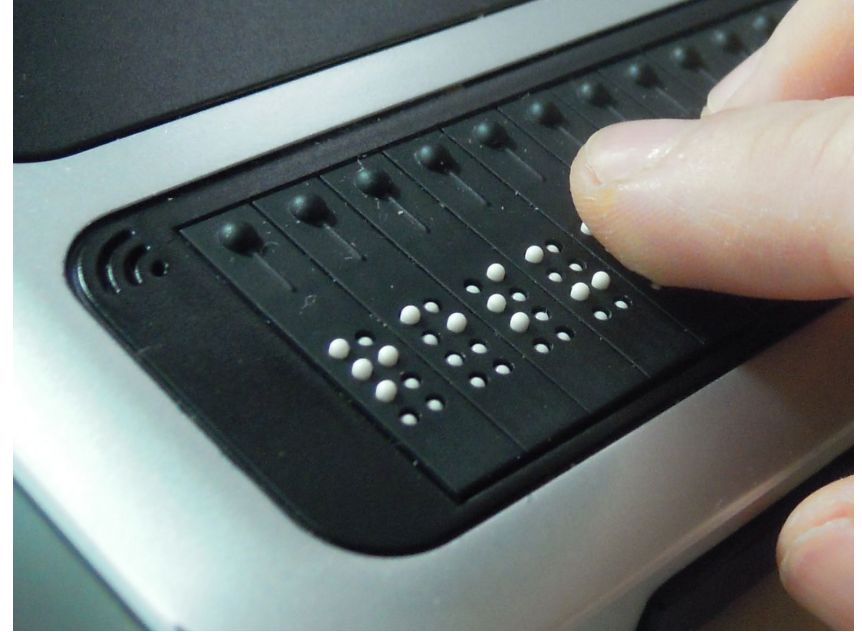
Testing throughout development



User Testing with NTNU and Funka

Development and testing experience with the test player

- Testing with a visually impaired user
- Tweaking the student experience on the fly
- Iterate improvements



Challenges

Improving the status quo, setting standards for the future

- Knowing what's important
- High (a l l y) code standards with legacy projects
- Internal knowledge of TTS applications such as Jaws, VoiceOver, TalkBack
- Providing TTS services for multiple languages in lock-down browsers (Amazon Polly, Chromebook app)
- Implementing and prioritising accessibility testing routines, measuring compliance



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Demo time

Showcasing some of the accessibility options and interactions

Planning WCAG compliance

Raising awareness amongst a growing team,
building new tools and features

- Educating a growing team
- Enforcing code standards (linting & reviewing code)
- Periodical E2E testing
- Full-scale test with Funka on the roadmap
- Implementing good standards for new repositories and gradually fixing known missing compliance (/admin)



Let's work together

How do you facilitate students with disabilities or administrators

- Please share your use cases
- How can we facilitate users with disabilities better?
- Report bugs, suggest improvements





Meet me later, or get in touch:
tim.hilhorst@inspera.no

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• Thank you