

experience a new way of climbing

START Hack 2021 - Mammut Case

Team Bobby Table

Colin Disler

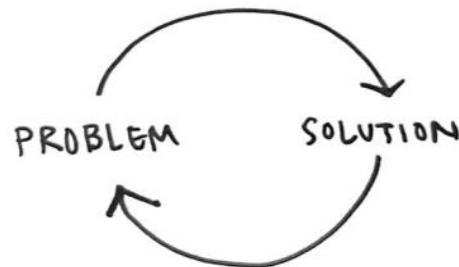
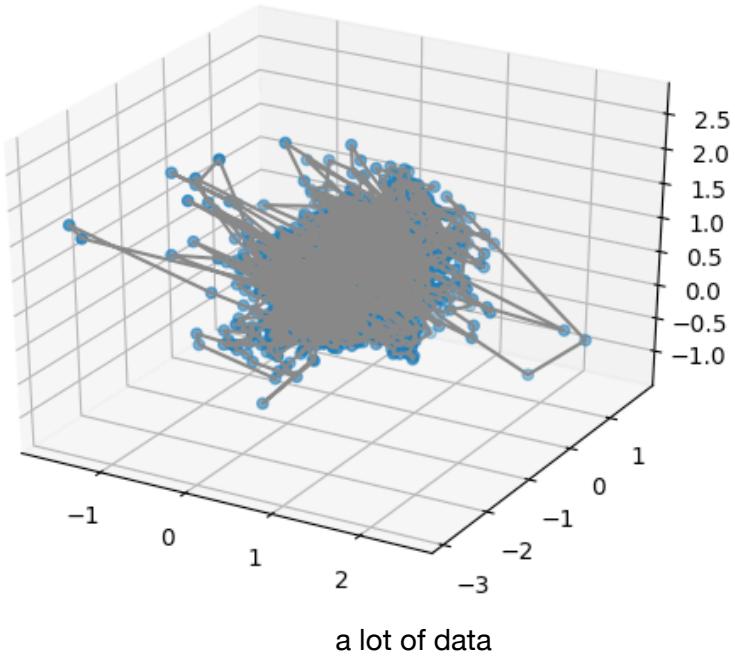
Lukas Kern

Simon Schwyter

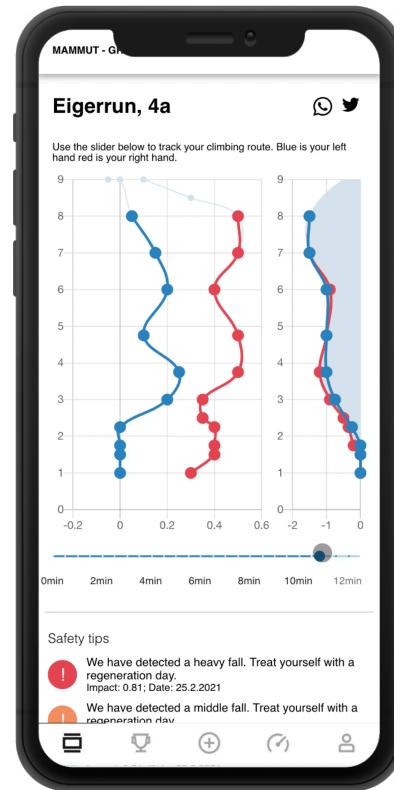
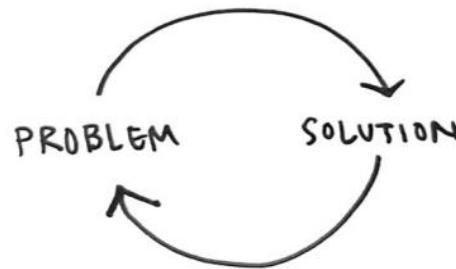
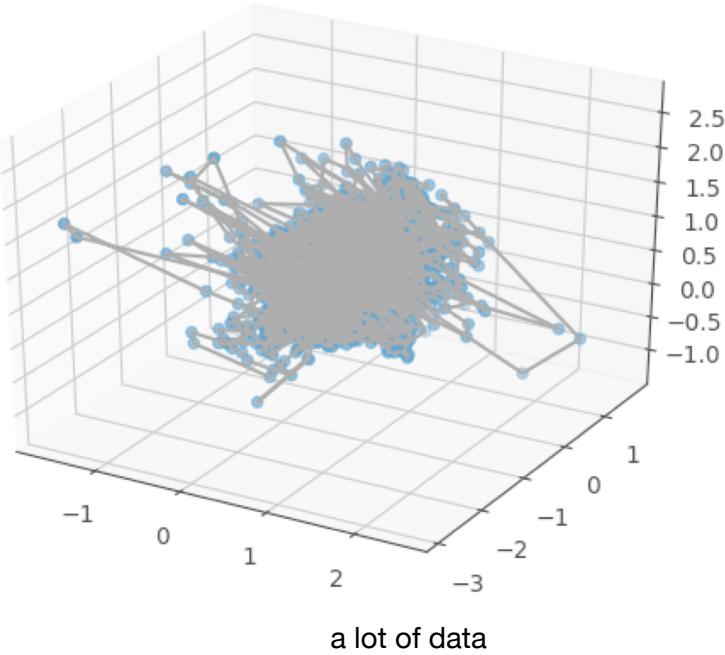
Luca Heer



Problem: although CLIMBAX provides an enormous amount of data, users can't experience the full potential so far



Solution: with our in-app feature GRIPCAST it is possible to visualize all your climbing activities intuitively & to gain valuable insights



Value proposition

1) Intuitive
visualization of
your climbing
activities



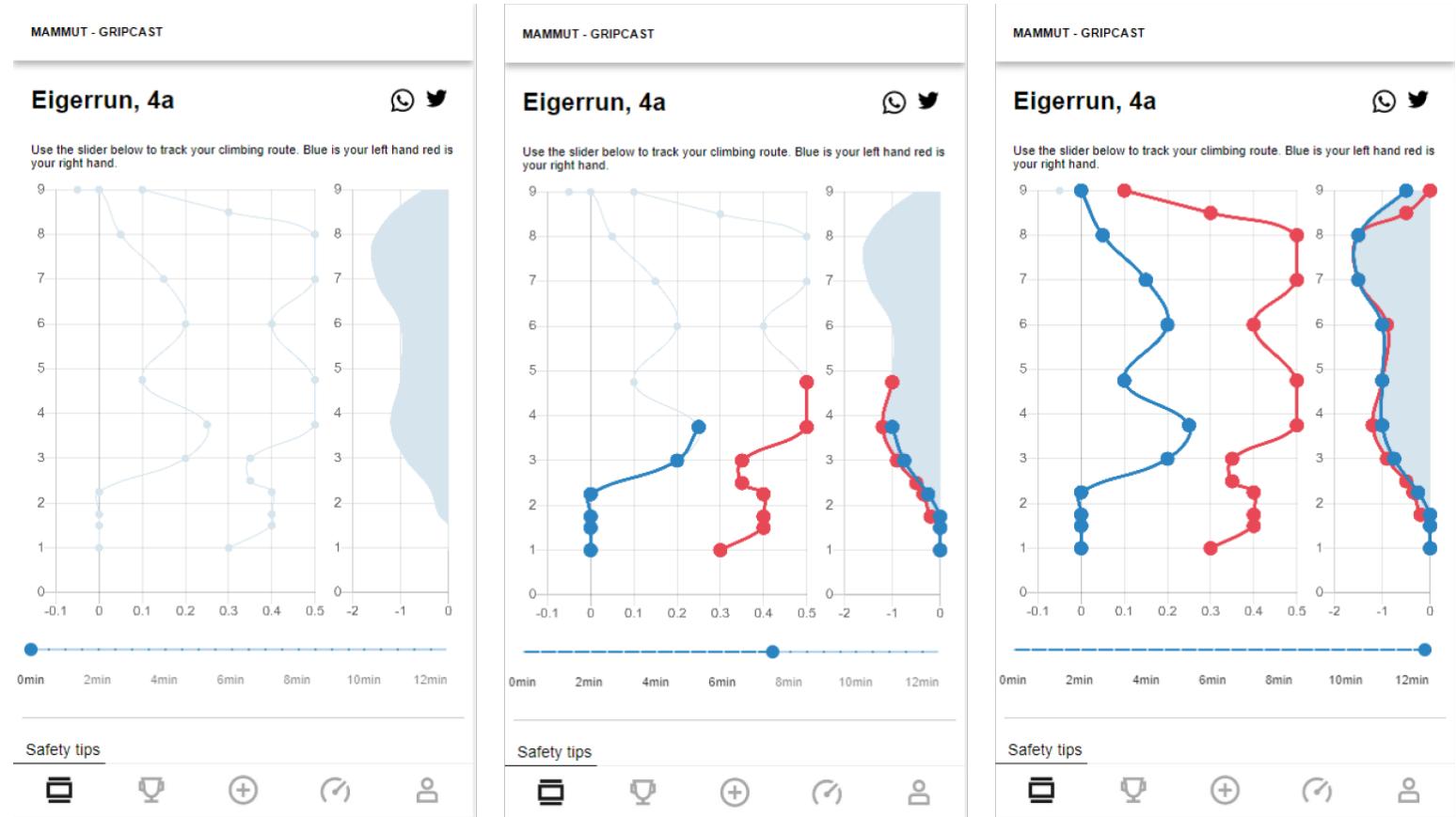
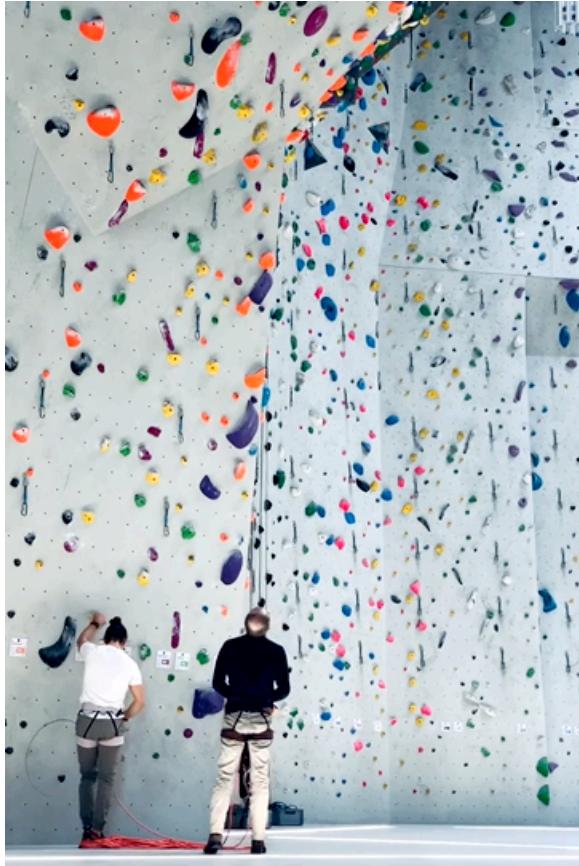
2) Share your
activities with your
friends to interact
with



3) Receive hints to
become a safer
climber

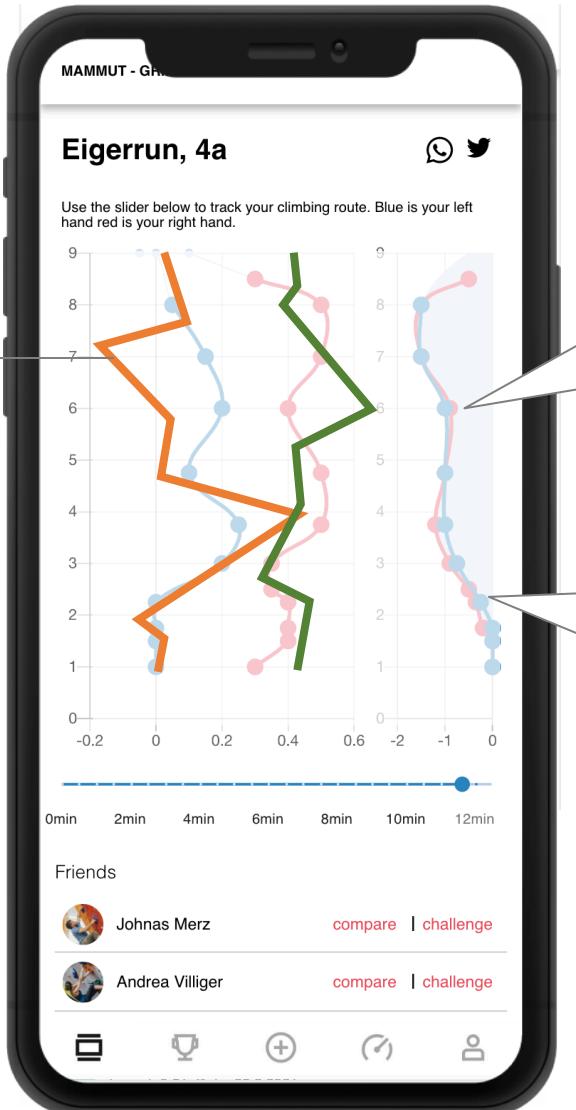


1) Visualization: Every route, every move, every grip can be analyzed virtually



2) Social interaction: Share your activities with your friends and get insights

Compare your routes with those of your friends



Andrea – 19:43

Congratulations - you have mastered the key section in an elegant way!



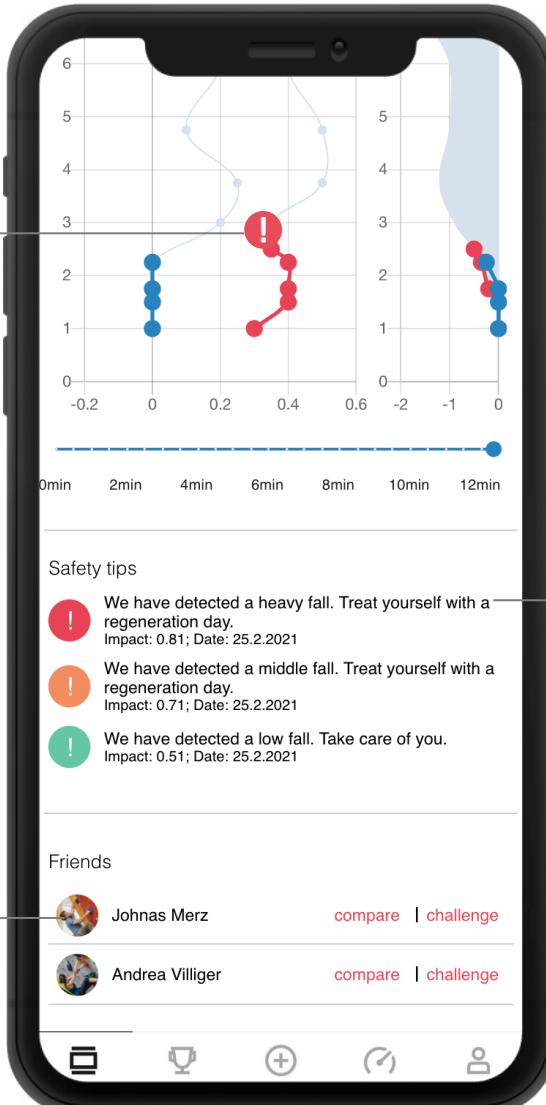
Joe – 21:57

Wow well done. Let's go climbing together again soon! 😊



3) Safety Coach: learn to better assess the risk of climbing

Falls are automatically detected and then assessed in the app

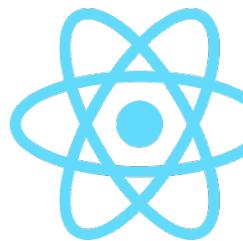


Based on the assessment of the falls, individual safety recommendations are displayed

See how safe your friends are climbing

Technology used for this hack

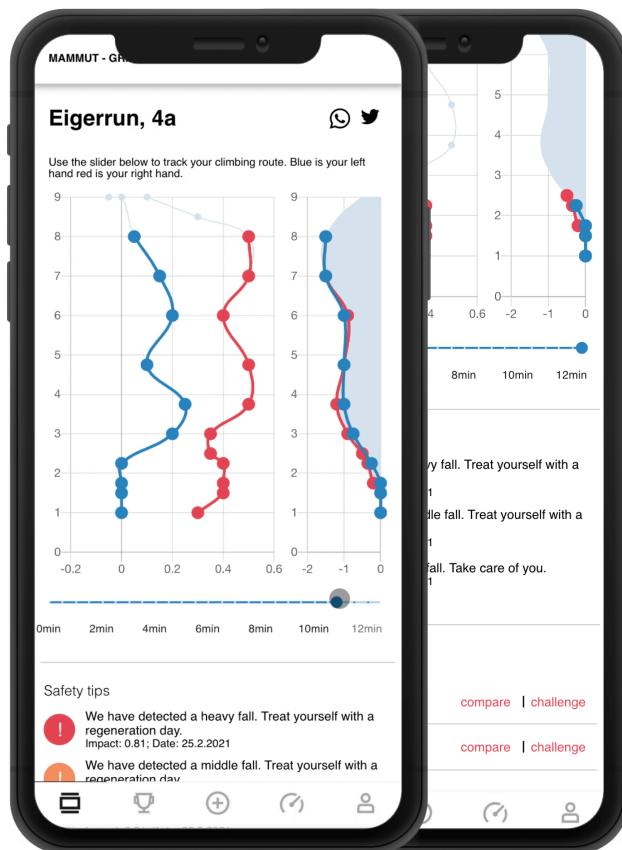
Frontend



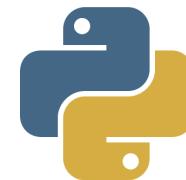
React



TypeScript



Backend



python



Flask

web development,
one drop at a time

Hosting



HEROKU

Vision: Let's make climbing a safer sport!

Features **to be implemented**:

- Fatigue indicator
- Slap rope warning detection
- Overuse prevention
- Do-Not-Jump-from-Boulder alert ☺



GRIPCAST™ was developed by a dedicated team based in Zurich, Switzerland 



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Dev, Ops and Coaching



Lukas Kern
Software Engineer at Swisscom &
Student Computer Science



Simon Schwyter
Product Owner und Frontend
Engineer at Nexplore AG



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