

DAT655 Blockchain technology and Applications

Intro

Leander Jehl

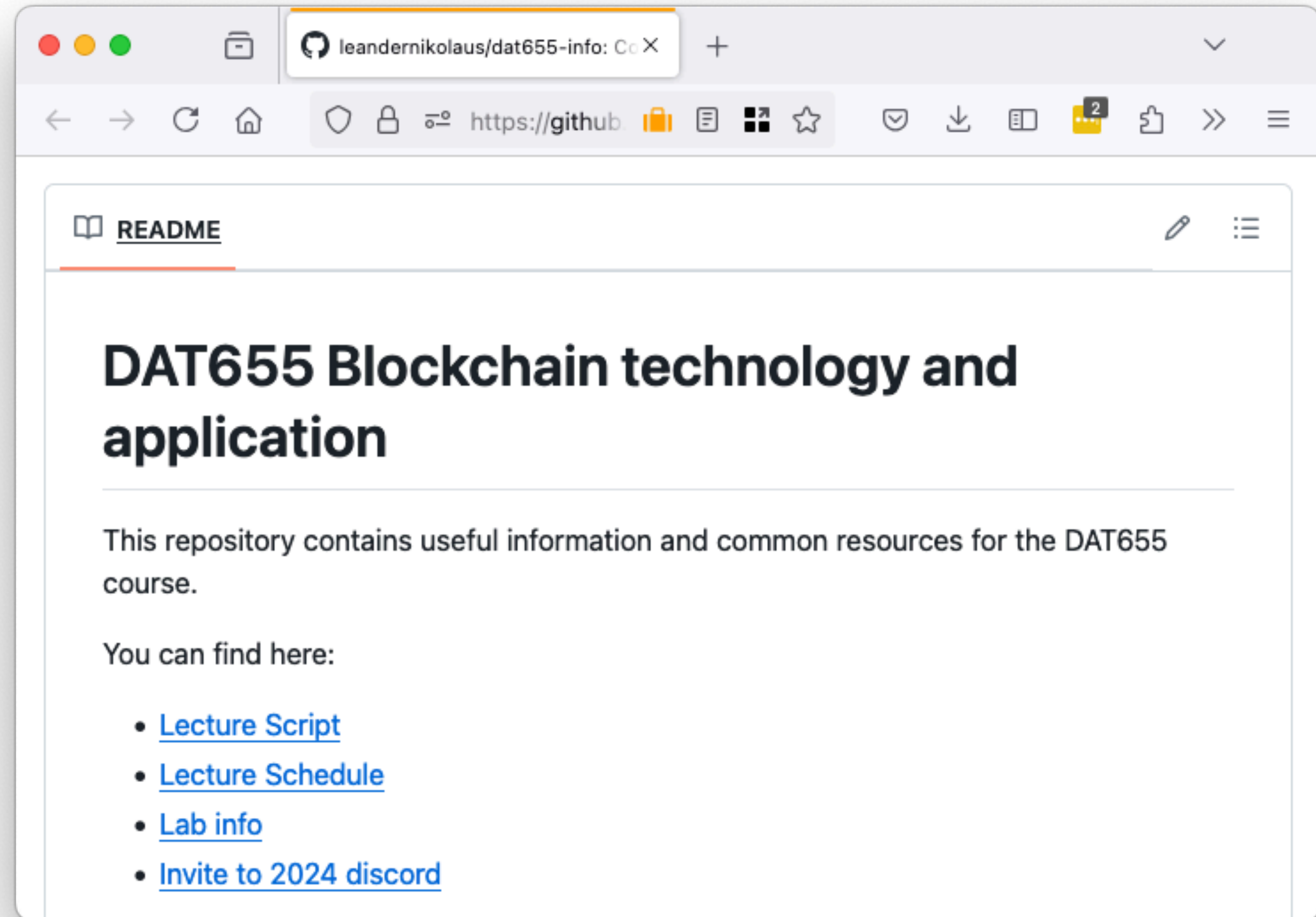
About me

Leander



Course info

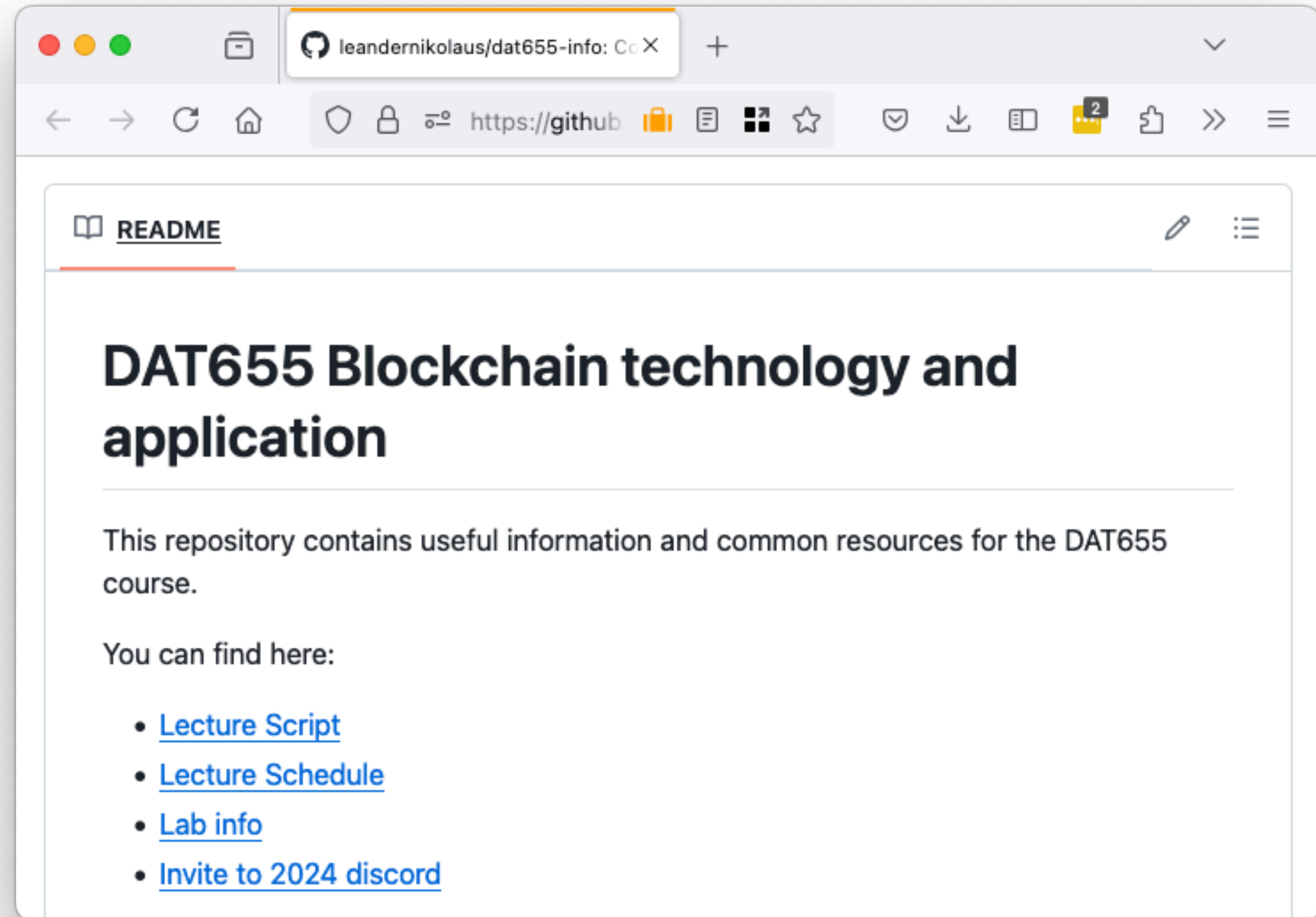
<https://github.com/leandernikolaus/dat655-info/>



Course info

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- Lectures
- Reading material
- Lecture script
(will be updated)
- Slides
(will be updated)



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- Lectures
 - Mainly theory
- Labs
 - Coding and discussion

Weekly timetable

Day	Time		Room
Monday	12:15 - 14:00	Lecture	KE E-166
Wednesday	10:15 - 12:00	Lab/Discussion	KE A-205

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- Timetable
 - Topic for Monday lecture
 - Wednesday lab activity:
 - Coding
Live and exercise
 - Discussion

Week	Lecture	Topic	Lab/Discussion
34	Leander	Intro and basic	Lab (Notebook)
35	Leander	Proof of Work	Lab (Notebook)
36	Leander	Accounts and UTXO	Lab (Notebook)
37	Leander	TBA	Lab (Notebook)
38	Leander	Applications	Discussion (Applications)
39	Leander	To PoS and Committees	Lab (Notebook)
40	Leander	Ethereum	Discussion (Decentralization)
41	Leander	SmartContracts (security)	Solidity
42	Leander	TBA	Solidity and tokens
43	Leander	Layer 2	Discussion (Layer 2 applications)
44	Leander	Privacy in Blockchain	Discussion (Privacy pro and con)
45	Leander	DePIN & DID	Discussion (Token applications)
46	Leander	Presentations	Presentations

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- Lab
 - Together or alone
 - Attend lab or deliver your own solution
 - Attending counts as passing the assignment

Week	Lecture	Topic	Lab/Discussion
34	Leander	Intro and basic	Lab (Notebook)
35	Leander	Proof of Work	Lab (Notebook)
36	Leander	Accounts and UTXO	Lab (Notebook)
37	Leander	TBA	Lab (Notebook)
38	Leander	Applications	Discussion (Applications)
39	Leander	To PoS and Committees	Lab (Notebook)
40	Leander	Ethereum	Discussion (Decentralization)
41	Leander	SmartContracts (security)	Solidity
42	Leander	TBA	Solidity and tokens
43	Leander	Layer 2	Discussion (Layer 2 applications)
44	Leander	Privacy in Blockchain	Discussion (Privacy pro and con)
45	Leander	DePIN & DID	Discussion (Token applications)
46	Leander	Presentations	Presentations

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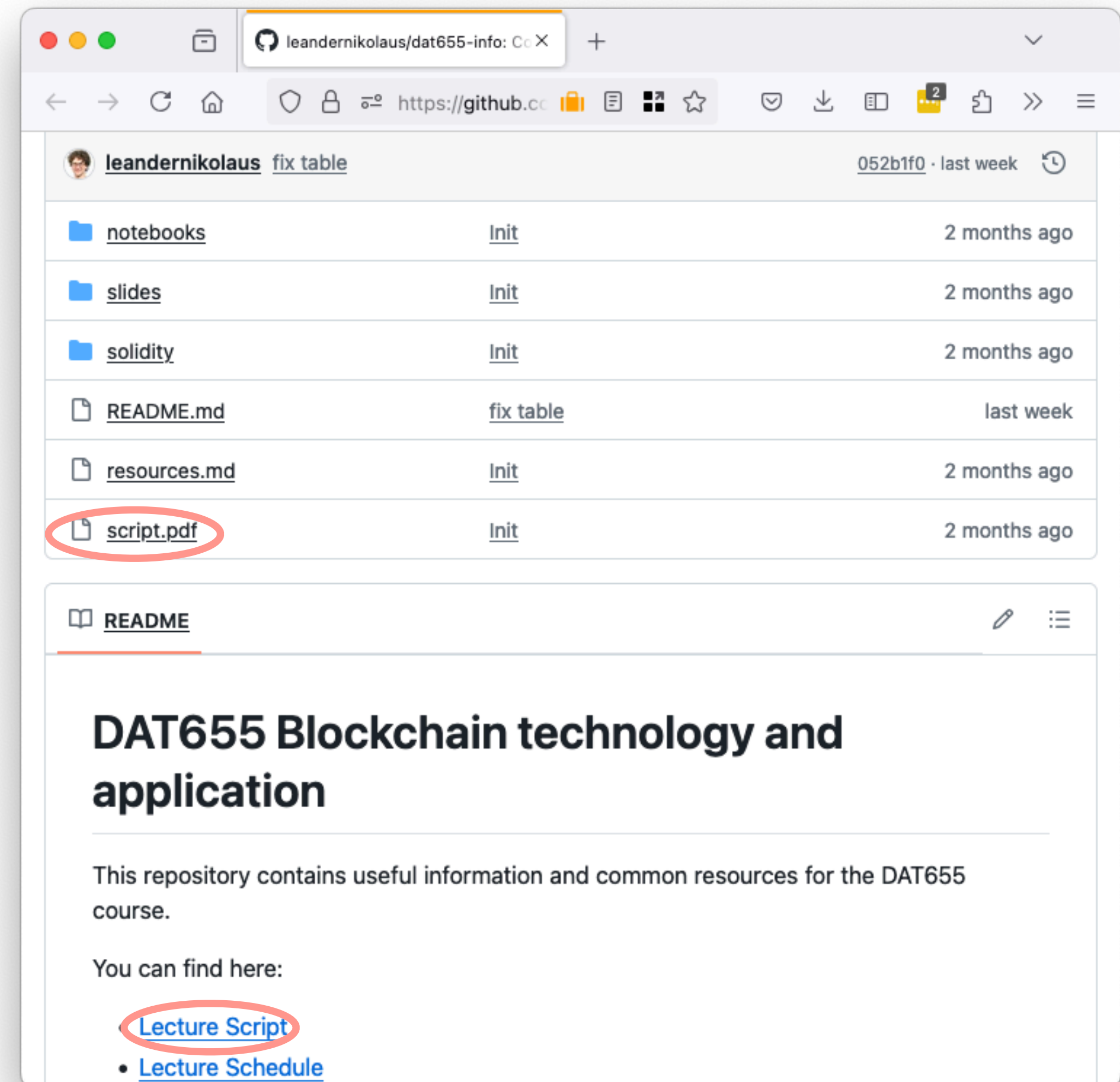
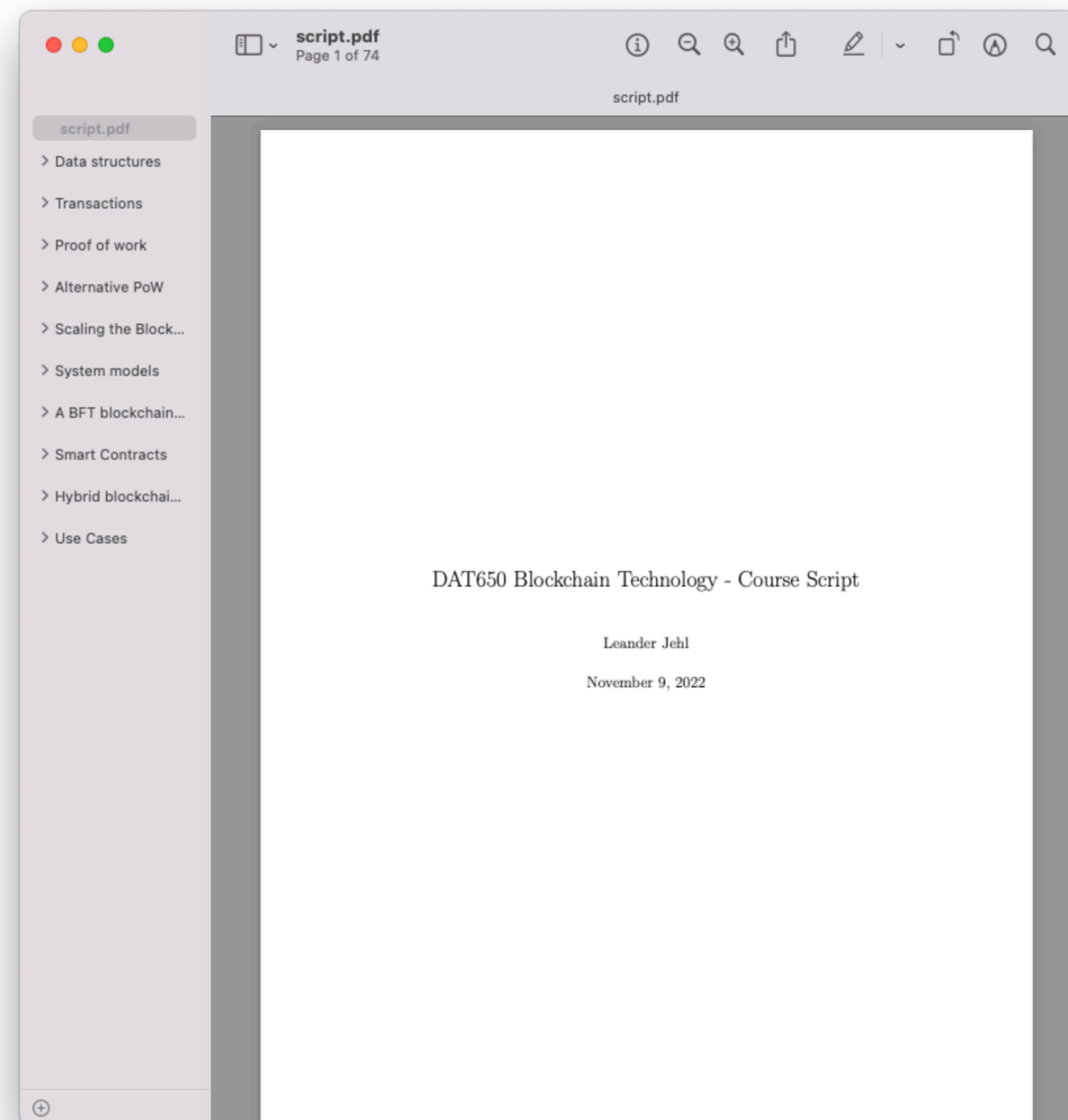
- Discussions
 - Attend or presend
 - Participate in discussions
- or
- Present a use case based on a review paper

Week	Lecture	Topic	Lab/Discussion
34	Leander	Intro and basic	Lab (Notebook)
35	Leander	Proof of Work	Lab (Notebook)
36	Leander	Accounts and UTXO	Lab (Notebook)
37	Leander	TBA	Lab (Notebook)
38	Leander	Applications	Discussion (Applications)
39	Leander	To PoS and Committees	Lab (Notebook)
40	Leander	Ethereum	Discussion (Decentralization)
41	Leander	SmartContracts (security)	Solidity
42	Leander	TBA	Solidity and tokens
43	Leander	Layer 2	Discussion (Layer 2 applications)
44	Leander	Privacy in Blockchain	Discussion (Privacy pro and con)
45	Leander	DePIN & DID	Discussion (Token applications)
46	Leander	Presentations	Presentations

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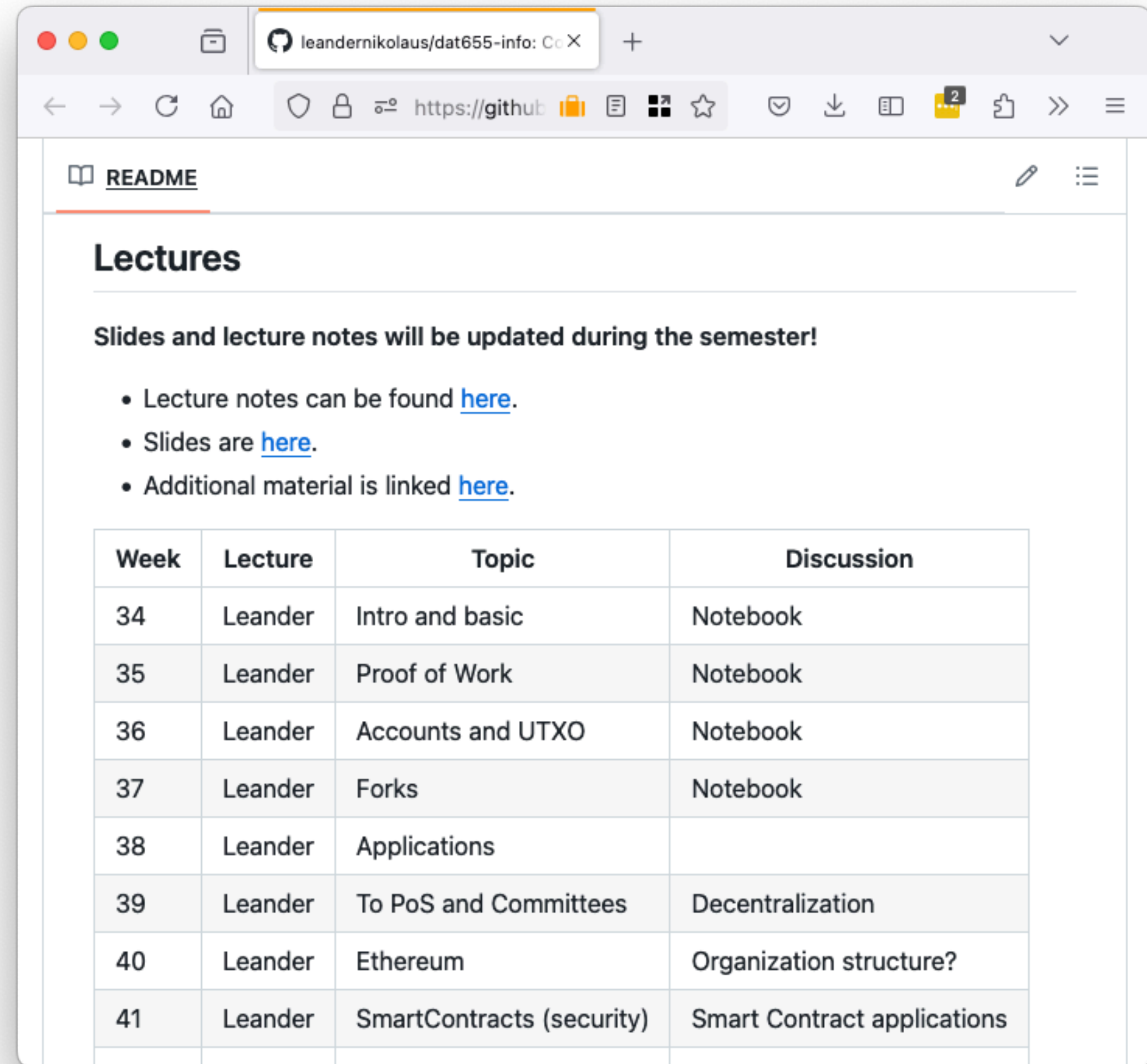
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- Lecture script



Grading

- Labs approved
- Participation or Presentation
- Oral exam covering
 - Lectures
 - Labs
 - Discussions



The screenshot shows a web browser window displaying a GitHub README page for the repository 'leandernikolaus/dat655-info'. The page title is 'README'. The main heading is 'Lectures'. Below the heading, a note states: 'Slides and lecture notes will be updated during the semester!'. This is followed by a bulleted list: 'Lecture notes can be found [here](#).', 'Slides are [here](#).', and 'Additional material is linked [here](#)'. Below the list is a table with four columns: 'Week', 'Lecture', 'Topic', and 'Discussion'. The table contains 10 rows of data, with the last row partially cut off.

Week	Lecture	Topic	Discussion
34	Leander	Intro and basic	Notebook
35	Leander	Proof of Work	Notebook
36	Leander	Accounts and UTXO	Notebook
37	Leander	Forks	Notebook
38	Leander	Applications	
39	Leander	To PoS and Committees	Decentralization
40	Leander	Ethereum	Organization structure?
41	Leander	SmartContracts (security)	Smart Contract applications