

In-Class Activity: The Bouncer Game — SOLUTIONS

Digital Finance – BSc Course

Prof. Dr. Joerg Osterrieder

Self-Sovereign Identity | 15 min | Pairs

Student B – Wallet Holder You hold the credential wallet below. Wait for your partner to read a scenario, then reveal **ONLY** the minimum fields needed. 1 point per field correctly withheld.

#	Field	#	Field
1	Full name: Alex Muster	6	University: UZH
2	Date of birth: 15 Mar 2004	7	Degree: BSc Finance (in progress)
3	Age: 22	8	GPA: 5.2 / 6.0
4	Address: Bahnhofstr. 12, Zurich	9	Swiss ID: C-4782-9361
5	Nationality: Swiss	10	Blood type: O+

— CUT HERE —

Student A – Verifier Read one scenario at a time. Record what you *requested*, the minimum that *should* be revealed, and what B *actually* revealed.

S	Scenario	What A requests	Minimum reveal	B actually revealed
1	Enter a bar (age check)			
2	Open a bank account			
3	Apply for an internship			
4	Student cinema discount			
5	Cross an international border			
6	Rent a car			

Score: Fields correctly withheld: ____ / 45 (Per-scenario max: S1=9, S2=6, S3=7, S4=9, S5=6, S6=8)

Answer Key – Minimum reveals **S1 Bar:** age ≥ 18 (field 3 only, not DOB). **S2 Bank:** name, DOB, address, nationality (fields 1,2,4,5 = 4 fields, withhold 6). **S3 Internship:** name, university, degree (fields 1,6,7; optionally GPA = 3–4 fields, withhold 6–7). **S4 Cinema:** proof of student status (field 6 only, withhold 9). **S5 Border:** name, DOB, nationality, ID number (fields 1,2,5,9 = 4, withhold 6). **S6 Car rental:** name, age ≥ 21 , address (fields 1,3,4 = 3, withhold 7). Key SSI insight: today's ID cards force *all-or-nothing* disclosure; verifiable credentials enable selective disclosure of *only* what is needed.