Subject code:	Subject name: Mobile application requirements analysis		
M.5(4)			
Study load: 2 ECTS	Load of contact hours: 28	Study semester: Spring	Assessment: Credit / No credit
Objectives:	students studying the basic concepts and principles of the formation and analysis of user requirements for mobile application programs, familiarity with various technologies and techniques for identifying and formalizing requirements, mastering the skills of working with complexes of documentation, testing and requirements management tools.		
Course outline:	<ul> <li>Topics covered:</li> <li>1. Features of the development of software requirements for mobile applications.</li> <li>2. Creation and analysis of requirements.</li> <li>3. Development of requirements.</li> <li>4. Documenting requirements.</li> <li>5. Quality attributes.</li> <li>6. Prototyping.</li> <li>7. Special requirements.</li> <li>8. Management requirements.</li> <li>9. Implementation of the requirements building process.</li> </ul>		
Learning Outcomes:	<ul> <li>practical training with individual and team tasks.</li> <li>By the end of the course students (in the terms of knowledge, skills, and attitudes) should be able to: <ol> <li>apply standards for the design of technical documentation at various stages of the life cycle of an information system;</li> <li>compile technical documentation at various stages of the life cycle of an information system;</li> <li>– analyse the feasibility of the requirements, evaluate the complexity of the implementation of the requirements for software;</li> <li>– align software requirements with interested parties;</li> <li>– develop and coordinate technical specifications for software components and collaborate with a software architect.</li> </ol> </li> </ul>		
Assessment Methods:	Assessment is split in mandatory presentati points) and group pro		ividual tasks, including 3 ring course (60% of
Teacher(s):	Vakhtin Alexsey		
Prerequisite	None		
subject(s):			
Compulsory Literature:	-	ware Requirements: Proging Requirements Through (Pro-Best Practices).	-
Replacement Literature:	Steve McConnell Co	de Complete,	

	$\mathbf{D} 1 + \mathbf{C} \mathbf{M}$		
	Robert C. Martin The Clean Coder: A Code of Conduct for		
Dautiaination	Professional Programmers.		
Participation	Individual project must be presented by end of the course.		
requirements:			
Independent work:	I. To develop requirements for the following software systems being designed (according to options):		
	1. The banking system. It is necessary to realize the possibility of		
	registering a client, opening credit and deposit accounts. Calculation		
	of accrued interest, commissions, etc. Generation of reports on clients		
	and bank affairs. To provide for the possibility of opening accounts		
	at predetermined tariffs, adjusting tariffs, and creating an individual tariff.		
	2. Software for the clinic or diagnostic center. Provide for patient		
	registration options. Viewing and editing the schedule of doctors,		
	making a patient appointment. Enter the results of the examination		
	and the doctor's opinion. Printout of test results, doctor's conclusions. To realize the possibility of access to the data of		
	conclusions. To realize the possibility of access to the data of		
	analyzes and conclusions of the doctor through the personal account of the patient.		
	3. Online store (auto goods, household chemicals, goods for repair,		
	etc.). To consider the division of goods into categories, the search for		
	goods by parameters. Order formation, order processing, etc.		
	4. The control system with the help of evoked visual potentials. To		
	consider a plug-in module for obtaining data of evoked potentials		
	with EEG, a signal processing module, and a control module based		
	on commands received from the signal processing module.		
	5. The control system using miosignals. To consider a plug-in module		
	for obtaining data of evoked potentials with EEG, a signal processing		
	module, and a control module based on commands received from the		
	signal processing module.		
	II. Conducting an analysis of the developed requirements of the		
	practical task option for your classmate		
	practical task	option for your classifiate	
Grading criteria scale			
or the minimal level	Failed	Laboratory and practical tasks not completed	
necessary for passing	Passed	Laboratory and practical tasks completed	
the subject:			
Information about			
the course:	Room, on	Room, on at	
1) Date 1	Laboratory 1		
	v	e development of software requirements for mobile	
	applications.		
2) Date 2	Practical 1		
	Features of the development of software requirements for mobile		
	applications.		
3) Date 3	Laboratory 2		
	Creation and analysis of requirements.		
4) Date 4	Practical 2		

	Creation and analysis of requirements.	
5) Date 5	Laboratory 3	
-	Development of requirements.	
6) Date 6	Practical 3	
	Documenting requirements.	
7) Date 7	Laboratory 4	
	Quality attributes.	
8) Date 8	Practical 4	
	Prototyping.	
9) Date 9	Laboratory 5	
	Special requirements.	
10) Date 10	Practical 5	
	Special requirements.	
11) Date 11	Laboratory 6	
	Management requirements.	
12) Date 12	Practical 6	
	Management requirements.	
13) Date 13	Laboratory 7	
	Implementation of the requirements building process.	
14) Date 14	Practical 7	
	Implementation of the requirements building process.	