	Frameworks	Hibernate and Spring		Sample Project using Spring http://www.javacodegeeks.com/2010/06/spring-3-restful-web-services.html
		SpringMVC		http://docs.spring.io/spring/docs/current/spring-framework-reference/html/spring-web.html http://www.infoq.com/springmvc/presentations/ https://dzone.com/tutorials/java/spring/spring-mvc-tutorial-1.html http://www.springbyexample.org/examples/
		Unit Testing using Mock objects		Reading Links for Mock: http://www.methodsandtools.com/archive/archive.php?id=122 http://stackoverflow.com/questions/38181/when-should-i-mock http://abhinandanmk.blogspot.in/2012/06/jmockit-tutoriallearn-it-today-with.html http://jmockit.org/tutorial.html Do's and Don'ts http://www.exubero.com/junit/antipatterns.html Sample Application https://gitlab.tavant.com/unittest-trg/ordrmgmt
	DB	Normalized DB design		Free online course by Standford University (by Prof. Jennifer Widom) – https://lagunita.stanford.edu/courses/DB/RD/SelfPaced/courseware/ch-relational_design_theory/seq-vid-relational_design_overview/ (Please register to the course to enable tracking of progress & to be able to get a statement/letter of accomplishment. Note: Participants need to complete all quizzes & assignments in order to get a final score and letter of accomplishment.) Videos of Prof. Jennifer Widom on YouTube: Relational Design Theory: Overview – https://www.youtube.com/watch?v=BDDmMOK8PDE&list=PLCV8PlnXJ9x6LAuqPXgXZNSeHznXQ3b3l&index=20 Relational Design Theory: Functional Dependencies – https://www.youtube.com/watch?v=uDVGa53VU8s&list=PLCV8PlnXJ9x6LAuqPXgXZNSeHznXQ3b3l&index=21 Relational Design Theory: Boyce-Codd Normal Form (BCNF) – https://www.youtube.com/watch?v=R1UVQmckkoo&index=22&list=PLCV8PlnXJ9x6LAuqPXgXZNSeHznXQ3b3l Relational Design Theory: Multivalued Dependencies & 4th Normal Form – https://www.youtube.com/watch?v=18x3kUhYDQk&list=PLCV8PlnXJ9x6LAuqPXgXZNSeHznXQ3b3l&index=23 Some alternative links for reading: http://www.studytonight.com/dbms/database-normalization.php http://www.phlonx.com/resources/nf3/ http://www.1keydata.com/database-normalization/first-normal-form-1nf.php http://www.1keydata.com/database-normalization/second-normal-form-2nf.php http://www.1keydata.com/database-normalization/third-normal-form-3nf.php
	Server side	REST based web services		Full Text on REST https://s3.amazonaws.com/tfpearsonecollege/bestpractices/RESTful+Best+Practices.pdf Training Video https://www.youtube.com/watch?v=AK6TullASgQ&list=PLqq-6Pq4lTTZh5U8RbdXq0WaYvZBz2rbn&index=5 Training Video Blog on Best practices http://www.vinaysahni.com/best-practices-for-a-pragmatic-restful-api#restful
			Basics of Javascript	http://www.w3schools.com/js/default.asp
Java	**Client Side**	Javascript	JQuery	https://learn.jquery.com/ http://jqfundamentals.com/chapter/jquery-basics http://www.w3schools.com/jquery/ http://www.tutorialspoint.com/jquery/ https://www.youtube.com/watch?v=hMxGhHNOkCU http://jqexercise.droppages.com/ http://stackoverflow.com/questions/3631039/design-patterns-used-in-the-jquery-library
			Angular JS	https://en.wikipedia.org/wiki/AngularJS https://angularjs.org/ https://docs.angularjs.org/tutorial http://www.w3schools.com/angular/ http://campus.codeschool.com/courses/shaping-up-with-angular-js/intro https://docs.angularjs.org/api https://egghead.io/lessons/angularjs-understanding-isolate-scope https://github.com/johnpapa/angular-styleguide#modules https://github.com/mgechev/angularjs-in-patterns
			ReactJS	https://facebook.github.io/react/docs/tutorial.html https://egghead.io/series/getting-started-with-redux https://facebook.github.io/immutable-js/docs/#/ http://teropa.info/blog/2015/09/10/full-stack-redux-tutorial.html https://facebook.github.io/react/docs/advanced-performance.html
			ReactJS	Excercises: demo1 - change the text to reflect your name! demo2 - change the list of names to indicate members of your team. demo3 - add a horizontal line between the two elements of the list and change the font size. demo4 - There is a div element called "address". You need to give your name followed by your home address, and also format the text. demo5 - We have a list of 5 items in our shopping list. Modify the example given to reflect these with bullet points. demo6 - Modify the code such that if we give a string instead of a number, an error message should be displayed. demo7 - Modify the code such that by default focus should be on the text box. When you click on the button, focus should be removed from the text box. demo8 - Modify the code so that when he clicks the first time, the message should change to "You like this". Any further click should not change the text. demo9 - Modify the code so that a new line is added for every 30 characters of input text. demo10- The stock prices of 5 major companies is displayed as a list. The previous days prices are also displayed. The rate of flickering of the stock price should be directly proportional to the difference between today's price and the previous days price. demo11- We have a list of inventory items. If I click on an item it should display the price and other details of the product. demo12- We have a list of inventory items. If I click on an item it should display the text as "loading... " and once the details have been received, it should display the price and other details of the product.
		Client side performance factors - basic understanding		http://browserdiet.com/en/#performance-matters
		Design Basics	gonality and Rever	http://www.javaworld.com/article/2078767/open-source-tools/java-tip-orthogonality-by-example.html http://www.jasoncoffin.com/cohesion-and-coupling-principles-of-orthogonal-object-oriented-programming/ Reversibility - http://www.bon-method.com/computer_annotated.pdf

Software Engineering		OO Concepts	OO Concepts & Programming http://teknadesigns.com/what-is-object-oriented-programming/
	Design Paradigms	nctional Programm	Removed - since we feel this would be too much at this level.
		OO Design	Introduction http://www.codeproject.com/Articles/93369/How-I-explained-OOD-to-my-wife In Detail on SOLID principles http://williamdurand.fr/2013/07/30/from-stupid-to-solid-code/ http://www.codemag.com/article/1001061 Head First Object-Oriented Analysis and Design - Recommended Book.
		Aspect Oriented Design	http://aosd.net/2007/program/industry/I6-AspectDesignPrinciples.pdf http://portal.ou.nl/documents/114964/2986739/T07351_01.pdf http://www.ccs.neu.edu/home/lieber/com3205/f02/lectures/aosd.ppt http://www.javacodegeeks.com/2011/01/aspect-oriented-programming-spring-aop.html http://www.springframework.net/doc/reference/html/aop.html
	Design Principles	SRP (Single Responsibility Principle)	SOLID Object oriented design - https://en.wikipedia.org/wiki/SOLID_%28object-oriented_design%29 Robert C. Matrin's paper (SRP) - https://docs.google.com/file/d/0ByOwmqah_nuGNHEtcU5OekdDMkk/edit Example (uses c# though) - http://www.codeproject.com/Articles/611593/SOLID-Principles-Single-Respons Dzone article - https://dzone.com/articles/single-responsibility For more examples and scenario refer to stack overflow questions
		OCP (Open Closed Princ	Please see in the link above under "SOLID Object Oriented Design"
		Design Heuristics	Object-Oriented Design Heuristics - Arthur J. Riel (http://marchoeijmans.blogspot.in/2012/06/arthur-j-riel-design-heuristics.html) http://www8.cs.umu.se/education/examina/Rapporter/BasharMolla.pdf Heuristics for Object-Oriented Design by Cleveland Augustine Gibbon - http://www.cs.nott.ac.uk/~pszcah/pdf/cag-phd.pdf
		Domain Modeling	https://en.wikipedia.org/wiki/Domain_model http://www.scaledagileframework.com/domain-modeling/ http://www.javaworld.com/article/2078042/java-app-dev/domain-driven-design-with-java-ee-6.html http://www.petrikainulainen.net/software-development/design/thefive-characteristics-of-a-good-domain-model/ http://martinfowler.com/eaaCatalog/domainModel.html
	Design Patterns	Where and how patterns should be used	Reference - http://code.tutsplus.com/articles/a-beginners-guide-to-design-patterns--net-12752 http://www.dofactory.com/net/design-patterns Javascript Design Pattern - http://stackoverflow.com/questions/3631039/design-patterns-used-in-the-jquery-library Anti-Pattern Reference - https://sourcemaking.com/antipatterns/software-development-antipatterns
Deployment		Basics of Deployment	Tomcat: ---------------- http://tomcat.apache.org/tomcat-7.0-doc/index.html http://tomcat.apache.org/tomcat-8.0-doc/index.html https://tomcat.apache.org/tomcat-7.0-doc/windows-service-howto.html https://tomcat.apache.org/tomcat-8.0-doc/windows-service-howto.html Apache: ---------------- http://httpd.apache.org/docs/2.0/misc/tutorials.html https://httpd.apache.org/docs/2.0/platform/windows.html Release management: -------------------------------- https://dzone.com/articles/best-practices-build-and http://www.plutora.com/insights/2013/release-management-best-practices/