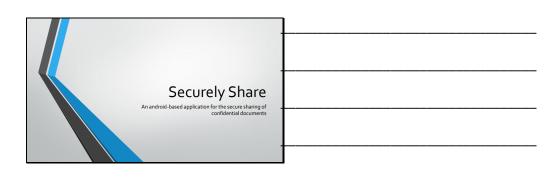
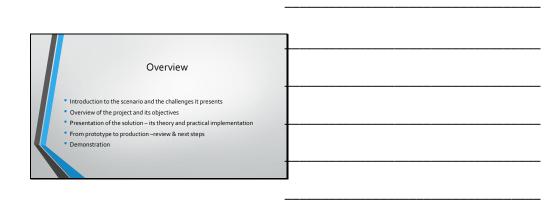
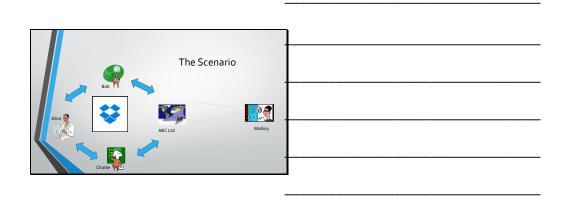
## Slide 1



## Slide 2



## Slide 3



Slide 4		Ţ
	Key Challenges  Project challenges  secure data exchange is a non-trivial problem – particularly against active attacker  mobile devices have inherent security risks which adds additional complication  Personal learning curve  zero knowledge starting point  Android is a whole new operating system not just 'Java with extra bits'	
	- Unfamiliar API's operating in a sub-optimal environment	
Slide 5		<u></u>
	The Project & Objectives	
	<ul> <li>To develop overall scheme for secure sharing of data with mobile access</li> <li>To develop a prototype application for an android tablet</li> <li>Minimise trust to be placed in 3<sup>rd</sup> parties</li> </ul>	
	No proprietary cryptography No transmission of unprotected data	
Slide 6		7
	The Solution	
	Dropbox used for all exchanging of files     Public key cryptography (RSA) for exchanging group encryption keys     No transmission or storage of plaintext	
	AES Encryption with CBC used for data encryption (currently with 128 bit key)     All key information held in encrypted KeyStores	

## Slide 8 Review and Questions \* What works well \* From prototype to production – further developments \* The Prototype \* Is designed as a "proof of concept" \* Appires to use "thest practice" within the code \* Uses well tested cryptographic techniques and standard librares \* Adheres to the stand security regularies \* — is totally lacking in visual appeal or in any application of HO Slide 8 Review and Questions